

**SECTION 2.3**

**Source of  
Injury or  
Illness;  
Secondary Source  
of Injury  
or Illness**

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<b>2.3.1</b>	<b>Source of Injury or Illness--Definition, Rules of Selection</b>
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The source of injury or illness identifies the object, substance, bodily motion, or exposure which directly produced or inflicted the previously identified injury or illness.
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**3.0 DEFINITION**

The source of injury or illness identifies the object, substance, bodily motion, or exposure which directly produced or inflicted the previously identified injury or illness.

**RULES OF SELECTION:**

3.1 Name as the source of injury or illness the object, substance, element, or bodily motion which *directly produced the injury or illness previously identified* in the nature of injury or illness classification.

3.2 If the injury or illness was inflicted by a specific **part** of a **machine, tool, or vehicle**, name the **whole** machine, tool, or vehicle as the source of injury except when:

- the part separated from or was independent of the "whole";
- the event is overexertion;
- the injury was inflicted by an overhead powerline or the electrical cord of an appliance, tool, or machine;
- the injury was inflicted by the floor of a vehicle in a non-transportation incident; or
- the incident involved a tractor and agricultural equipment combination.

In these instances, code that **part** as source.

3.3 If the injury or illness was inflicted by a specific **part** of a **structure** (window, door, stairs) name that **part** as the source of injury.

3.4 When an injury or illness was produced by a filled **container**, name the container, not the contents, as the source unless the injury or illness was directly inflicted by the contents, such as hot liquids or chemicals.

3.5. Coding **Bodily motion or position** as the source of injury or illness:

3.5.1 Name Bodily motion or position as the source of injury or illness only when the injury resulted solely from the stress or strain induced by the free movement of the body or its parts (voluntary or involuntary), or from the assumption of a strained or unnatural body position.

Bodily motion or position includes injuries or illnesses resulting from reaching, turning, twisting, bending, walking, climbing, running, and from efforts to recover from a loss of equilibrium, provided that the loss of equilibrium does not result in a fall or in forcible contact with an object above the working surface.

Do **not** name **Bodily motion or position** as the source of injury or illness if the injury or illness resulted from any of the following:

- 1) falling
- 2) bumping into or striking an external object

<b>2.3.1 Source of Injury or Illness--Rules of Selection (continued)</b>
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- 3) nonrepetitive lifting, pushing, pulling, welding, or throwing an external object
- 3.5.2 For injuries or illnesses in which either **Repetitive motion** or **Sustained viewing** is coded as the event, select bodily motion or position as the source of injury or illness.
- 3.6 If, as the result of a **transportation accident**, a person who was in or on a **vehicle or mobile equipment** is injured, name the vehicle or mobile equipment as the source of injury.
- 3.7 Selecting Source from **multiple objects or substances**:
  - 3.7.1 When an injury results from forcible contact with two or more objects, either simultaneously or in rapid sequence, and it is impossible to determine which object directly produced the injury, select the source as follows:
    - 1) When the choice is between a moving object and a stationary object, select the moving object. *Example: If a person is struck by a moving vehicle and thrown against a post, name the vehicle as the source of injury.*
    - 2) When the choice is between two moving objects or between two stationary objects, select that which was contacted last. *Example: If a person falls from an elevator, striking one or more objects in the course of his fall, but finally striking the floor, name the floor surface as the source of injury.*
  - 3.7.2 When an injury or illness results from two or more different objects or substances, all of which contributed to producing the injury or illness, select the source code as follows:
    - 1) When there are two substances from the Chemical Division, select the appropriate "Multiple" code for that combination of chemicals.
    - 2) When the two objects or substances are in the same Division, select the Divisional n.e.c. code for that Division. If they are in the same group within a division, select the group n.e.c.
    - 3) When the two objects or substances are not in the same Division, use the code for **Other sources, n.e.c.**
- 3.8 Select **Weather and atmospheric conditions** or geological events--**Floods, Earthquakes, Avalanches**--as the source of injury or illness when that is the only possible source identified.

*For example, if a worker sustained multiple injuries in an earthquake, and no other source could be determined, select earthquake as the source of injury. However, if an employee were driving in a rainstorm and had an automobile accident resulting in injury, select vehicle as the source.*

<b>2.3.2 Secondary Source of Injury or Illness--Definition, Rules of Selection</b>
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The secondary source of injury or illness identifies the object, substance, or person that <b>generated</b> the source of injury or illness or that <b>contributed to</b> the event or exposure.
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## 5.0 DEFINITION

The secondary source of injury or illness identifies the object, substance, or person that **generated** the source of injury or illness or that **contributed to** the event or exposure.

### RULES OF SELECTION:

- 5.1 Use the Source of Injury or Illness Classification Structure for coding secondary source of injury or illness.
- 5.2 When the source of injury or illness is a **moving object or harmful substance**, name the machine, tool or equipment which generated the source or which propelled it. If none, name the work object from which the source originated, such as the steel plate from which a metal chip fell. Exceptions to this rule for Fires, Explosions, Assaults, and Transportation Accidents are noted below.  
  
When the source is an infectious agent, name the object or person through which the agent was transmitted.
- 5.3 When **involuntary motion** leads to an injury or illness,--**such as when a worker slips, trips, or is pushed or pulled into an object**--name the object or substance, other than source, which contributed to the involuntary motion. Examples of objects and substances that could contribute to involuntary motion include clothing, jewelry, or cleaning cloths that pulled the worker into a machine, and substances such as ice, water, or grease that a worker slipped on.  
  
If no other contributing factor is named for incidents involving falls to lower levels, name the surface or object from which the worker fell.
- 5.4 If the event is **Fires** or **Explosions**, name the flammable substance, other than the source, that ignited or exploded. If none is noted, name the machine, equipment, or object, other than the source, that caught fire or exploded.
- 5.5 If the event is **Assaults and Violent Acts**, name the person, if not the source, who committed the act.
- 5.6 If the event is **Repetitive motion** or **Sustained viewing**, name the machine, tool, or equipment that was being used or handled.

<b>2.3.2 Secondary Source of Injury or Illness--Rules of Selection (continued)</b>
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5.7 If the event is a **Transportation Accident** involving a collision, name the vehicle, machine, or object with which the source collided.

5.8 In the absence of a specific rule above, if **two objects or substances** contributed to an event, name the object, or substance which was not selected as the source. If more than two objects, substances, other than source, are involved, select:

- powered or energized objects over nonpowered objects,
- moving objects over nonmoving objects,
- objects actively contributing to the event over passive objects.

5.9 Select **Weather and atmospheric conditions** or geological events--**Floods, Earthquakes, Avalanches**--as the secondary source of injury or illness when that is the only possible secondary source identified.

*For example, if a worker sustained multiple injuries when struck by an object in an earthquake, select earthquake as the secondary source.*

5.10 If **no object, substance, or person** is determined to meet the definition and rules listed above, no secondary source is selected. Objects which inflict an injury, but which neither generated the source nor contributed to the event, should not be selected as the secondary source.

*For example, if a worker falls from a vehicle in a transportation incident and is injured when hitting the road surface, the road is not selected as the secondary source.*

<b>2.3.3</b>	<b>Source of Injury or Illness; Secondary Source of Injury or Illness--Titles and Descriptions</b>
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<p>The Source of Injury or Illness code structure is arranged in ten divisions, 0 through 9. Division 9 contains codes for classifying sources that are not classified or listed under any of the other divisions. <b>The Secondary Source of Injury or Illness uses the Source of Injury or Illness titles and descriptions.</b></p>
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Source of Injury or Illness code description pages are numbered from DS-1 through DS-96 (the "D" meaning "description, the "s" meaning "source").

The divisions are identified by title at the top right corner of each page.

The Source of Injury or Illness divisions are arranged as follows:

<u>DIVISION</u>	<u>TITLE</u>
0	Chemicals and Chemical Products
1	Containers
2	Furniture and Fixtures
3	Machinery
4	Parts and Materials
5	Persons, Plants, Animals, and Minerals
6	Structures and Surfaces
7	Tools, Instruments, and Equipment
8	Vehicles
9	Other Sources
9999	Nonclassifiable

**0\***      **CHEMICALS AND CHEMICAL PRODUCTS**

This division includes chemicals and chemical products in various states--liquids, gas, fumes, vapors, and solids. In general, the specific chemical code (major groups 01-05, 08, and 09) should be used when the specific chemical or type of chemical is known. When only the type of product is known, the appropriate code for the product (major groups 06-07) should be used.

Unspecified vapors or fumes--either toxic or nontoxic--that are not the product of combustion should be coded Chemicals and chemical products, unspecified, code 00. Carbon monoxide resulting from the incomplete combustion of fuels or that is contained in motor vehicle exhaust gas, blast furnace gas, or kiln vapor is coded 0941, carbon monoxide.

*Includes:*            Acids; alkalies; aromatics and hydrocarbon derivatives; halogens and their compounds; metallic dusts, powders and fumes; agricultural chemicals and pesticides; coal, natural gas, petroleum fuels and products; and other chemicals and chemical products.

*Excludes:*           Tars and sealants (46); metallic minerals (54); nonmetallic minerals, except fuels (55); smoke and fire gases (9342); scrap, waste, debris (95) unless specified as chemical; and nonchemical steam and vapors (96).

**00**      **Chemicals and chemical products, unspecified****01\***      **Acids**

This group includes acids of various types.

*Includes:*            Acid gases--halogen; inorganic acids--halogen; inorganic acids--other; and organic acids.

*Excludes:*           Benzoic and phenylacetic acids (as herbicides) (064); LSD (0742).

**010**      **Acids, unspecified****011\***      **Acid gases--halogen**

Acid gases--halogen, which are halogen gases that form an acid when dissolved in water, are included in this category.

**0110**      **Acid gases, unspecified****0111**      **Hydrogen bromide**

*Anhydrous hydrobromic acid*

**0112**      **Hydrogen chloride**

*Anhydrous hydrochloric acid*

*Chlorohydric acid*

*Hydrochloric acid gas*

**0113**      **Hydrogen fluoride**

*Anhydrous hydrofluoric acid*

*Fluorohydric acid gas*

*Hydrofluoric acid gas*

**0114**      **Hydrogen iodide**

*Anhydrous hydriodic acid*

*Hydriodic acid gas*

**0119**      **Acid gases, n.e.c.**

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\* - Asterisks indicate division, major group, or group titles.

**012\* Inorganic acids--halogens**

Included in this group are simple inorganic acids involving the halogens--bromine, chlorine, fluorine, iodine, and astatine. Certain acids containing chlorine--perchloric, chloric, chlorous, and hypochlorous acids--are coded under 0131, chlorine containing oxyacids. Other inorganic acids are coded under 013.

**0120 Inorganic acids--halogens, unspecified****0121 Hydriodic acid**

*Aqueous hydrogen iodide*

**0122 Hydrobromic acid**

*Aqueous hydrogen bromide*

**0123 Hydrochloric acid**

*Aqueous hydrogen chloride*  
*Muriatic acid*

**0124 Hydrofluoric acid**

*Aqueous hydrogen fluoride*

**0129 Inorganic acids--halogens, n.e.c.****013\* Inorganic acids--other**

This group includes inorganic acids with the exception of the simple halogen inorganic acids, which are coded under 012.

**0130 Inorganic acids, unspecified****0131 Chlorine-containing oxyacids**

*Chloric acid* *Hypochlorous acid*  
*Chlorous acid* *Perchloric acid*

**0132 Nitric acid**

*Aqua fortis*  
*Red fuming nitric acid (RFNA)*  
*White fuming nitric acid (WFNA)*

**0133 Phosphoric acid****0134 Sulfuric acid**

*Battery acid*

**0139 Inorganic acids, n.e.c.**

<i>Arsenic acid</i>	<i>Dithionic acid</i>	<i>Orthoperiodic acid</i>
<i>Arsenous acid</i>	<i>Dithionous acid</i>	<i>Orthosilicic acid</i>
<i>Bromic acid</i>	<i>Hypobromous acid</i>	<i>Orthotelluric acid</i>
<i>Bromous acid</i>	<i>Hypoiodous acid</i>	<i>Perchromic acid</i>
<i>Carbonic acid</i>	<i>Hypophosphorous acid</i>	<i>Periodic acid</i>
<i>Chlorosulfonic acid</i>	<i>Hyponitrous acid</i>	<i>Permanganic acid</i>
<i>Chromic acid</i>	<i>Hyposulfurous acid</i>	<i>Perrhenic acid</i>
<i>Cyanic acid</i>	<i>Iodic acid</i>	<i>Pertechnic acid</i>
<i>Dichloroacetic acid</i>	<i>Isocyanic acid</i>	<i>Phosphorous acid</i>
<i>Dichromic acid</i>	<i>Manganic acid</i>	<i>Rhenic acid</i>
<i>Dichloropropionic acid</i>	<i>Metaboric acid</i>	<i>Selenic acid</i>
<i>Difluorophosphoric acid</i>	<i>Metaphosphoric acid</i>	<i>Sulfoxylic acid</i>
<i>Diphosphoric acid</i>	<i>Metsilicic acid</i>	<i>Sulfurous acid</i>
<i>Diphosphorous acid</i>	<i>Nitrous acid</i>	<i>Technetic acid</i>
<i>Disulfuric acid</i>	<i>Nitroxyl acid</i>	<i>Triphosphoric acid</i>
<i>Disulfurous acid</i>	<i>Orthoboric acid</i>	

\* - Asterisks indicate division, major group, or group titles.



**014\* Organic acids**

This group contains the organic acids such as acetic acid, the acrylic acids, the carbolic acids, hydrocyanic acid, peracetic acid, and picric acid, among others. Inorganic acids are coded under 012 and 013. Acid gases are under 011.

**0140 Organic acids, unspecified****0141 Acetic acid, vinegar****0142 Acrylic acids***Acrylic acid**Methacrylic acid**Polyacrylic acid**Polymethacrylic acid***0143 Carbolic acids***Phenol***0144 Hydrocyanic acid****0145 Peracetic acid****0146 Picric acid***Carbazotic acid**Nitroxanthic acid**Phenol trinitrate**Picronitric acid**Trinitrophenol***0149 Organic acids, n.e.c.***Acetylsalicylic acid**Adipic acid**Alkanesulfonic acid**Benzoic acid**Bromoacetic acid**Butyric acid**Capric acid**Caproic acid**Caprylic acid**Chloroacetic acid**Chlorobutyric**Chloroisocyanuric acid**Chloropropionic acid**Cyanoacetic**Etching acid, liquid, n.o.s.**Fluoboric acid**Fluoroacetic acid**Fluorosulfonic acid**Formic acid**Hexafluorophosphoric acid**Hexanoic acid**Hydrofluorosilicic acid**Iodoacetic acid**Isobutyric acid**Isopentoic acid**Lauric acid**Monofluorophosphoric acid**Oleic acid**Oxalic acid**Nitrohydrochloric acid**Palmitic acid**Performic acid**Persulfuric acid**Phthalic acid**Phenylacetic acid**Phenylstearic acid**Propionic acid**Salicylic acid**Sebacic acid**Stearic acid**Thioglycolic acid**Trichloroacetic acid**Valeric acid***018 Multiple acids****019 Acids, n.e.c.****02\* Alkalies**

This major group includes chemicals commonly known as alkalies, bases, or caustics. Caustic, unspecified should be coded as 0200. Wet and dry cement mix, mortar, and lime (except for chlorinated lime) are included under 021, Calcium hydroxides, calcium oxides. Lye and products, such as drain and oven cleaners that contain lye are included under 024, sodium and potassium hydroxide, potassium carbonate. Chlorinated lime is included under chlorine, code 0422. Limestone is coded under Carbonates--calcium, sodium, code 022.

\* - Asterisks indicate division, major group, or group titles.

*Includes:* Calcium hydroxides, calcium oxides, calcium and sodium carbonates, dry/wet cement, lime, lithium hydroxide, sodium and potassium hydroxide, potassium carbonate

*Excludes:* Chlorinated lime (0422); nonlye oven cleaners.

**020 Alkalies, unspecified**

**021\* Calcium hydroxides, calcium oxides**

**0210 Calcium hydroxide, calcium oxide, unspecified**

**0211 Cement, mortar mix--dry**

**0212 Cement, mortar mix--wet**

**0213 Lime**

*Burnt lime*

*Calx*

*Fluxing lime*

*Pebble lime*

*Quick lime*

*Slaked lime*

*Unslaked lime*

**0219 Calcium hydroxide, calcium oxides, n.e.c.**

**022\* Carbonates--calcium, sodium**

**0220 Carbonates--calcium, sodium, unspecified**

**0221 Limestone, calcium carbonate**

**0222 Sodium bicarbonate, baking soda**

**0223 Sodium carbonate, soda ash**

**0229 Carbonates, n.e.c.**

**023 Lithium hydroxide**

**024 Sodium and potassium hydroxide, potassium carbonate**

*Carbonate of potash*

*Caustic potash*

*Caustic soda*

*Lye*

*Pearl ash*

*Potassium carbonate*

*Potassium hydroxide*

*Sodium hydroxide*

**028 Multiple alkalies**

**029 Alkalies, n.e.c.**

**03\* Aromatics and hydrocarbon derivatives, except halogenated**

This major group includes alcohols, aldehydes, amines, aromatics, ethers, ketones, peroxides, and nitrohydrocarbons, except for those containing the halogens--chlorine, fluorine, bromine, iodine, or astatine. Halogenated compounds are included under major group 04, Halogens and halogen compounds.

*Includes:* Alcohols, antifreeze, aldehydes, amines--nonaromatic, aromatics, ethers, ketones, peroxides

*Excludes:* Aromatics and hydrocarbon derivatives containing halogens (04)

**030 Aromatics and hydrocarbon derivatives, except halogenated, unspecified**

\* - Asterisks indicate division, major group, or group titles.

**031\* Alcohols**

This category includes various types of alcohols. Antifreeze and radiator coolant are included in this category as a separate subcategory (0311). Category 031 should be used to code alcohol as the source of injury incurred during the manufacture of alcoholic beverages. Alcoholic beverages, code 0741, should be selected when alcohol is used as a beverage.

**0310 Alcohol, unspecified****0311 Antifreeze**

*Radiator coolant*  
*Radiator fluid*

**0312 Ethanol**

*Cologne spirit*  
*Ethyl alcohol*  
*Ethyl hydrate*  
*Ethyl hydroxide*

*Grain alcohol*  
*Methylated spirit*  
*Spirit of wine*

**0313 Ethylene glycol**

*1,2-Ethanediol*  
*Glycol*

*Glycol alcohol*  
*EG*

**0314 Fusel oil**

*Amyl alcohol*  
*Butyl alcohol*

*Propyl alcohol*

**0315 Methanol**

*Carbinol*  
*Methyl alcohol*

*Wood alcohol*  
*Wood spirits*

**0316 Propanol**

*Dimethyl carbinol*  
*Isopropanol*  
*Isopropyl alcohol*

*n-propyl alcohol*  
*Rubbing alcohol*  
*Secondary propyl alcohol*

**0319 Alcohol, n.e.c.**

*Allyl alcohol*  
*Glycerol*  
*n-butyl alcohol*  
*Pentyl alcohols*

*Propenyl alcohol*  
*Propylene glycol*  
*Vinyl carbinol*

**032\* Aldehydes**

This category includes acrolein, formaldehyde, acetaldehyde, formalin, and the other aldehydes. Ketones are coded under 036.

**0320 Aldehyde, unspecified****0321 Acetaldehyde**

*Acetic aldehyde*  
*Aldehyde*

*Ethyl aldehyde*

**0322 Acrolein**

*Acraldehyde*  
*Acrylic aldehyde*

*Allyl aldehyde*  
*Propenol*

**0323 Formaldehyde**

*Formic aldehyde*  
*Methyl aldehyde*  
*Methylene oxide*

*Oxomethane*  
*Oxymethylene*

\* - Asterisks indicate division, major group, or group titles.

**0324 Formalin****0329 Aldehydes, n.e.c.**

*Butyraldehyde*  
*2-Furaldehyde*  
*Furol*  
*Furfural*

*Furfuraldehyde*  
*Propionaldehyde*  
*Pyromucic aldehyde*

**033\* Amines--nonaromatic**

This group includes the nonaromatic amines only. Aniline and the other aromatic amines are coded as 0341.

**0330 Nonaromatic amines, unspecified****0331 Methyl amine****0339 Nonaromatic amines, n.e.c.**

*Butyl amine*  
*Ethyl amine*

*Isopropyl amine*  
*Propyl amine*

**034\* Aromatics**

This group contains the cyclical hydrocarbons based on the benzene ring. They are also known as the aromatics. The aromatic amines are included in this group. The nonaromatic amines are coded under 033.

**0340 Aromatics, unspecified****0341 Aniline and other aromatic amines**

*2-Acetylaminofluorene*  
*alpha-, beta-*  
*Naphthylamine*  
*Aminobenzene*  
*Aminodiphenyl*  
*Benzidine*  
*Butter yellow*

*2-Chloroaniline*  
*4-Dimethylaminoazobenzene*  
*3,3'-Dichlorobenzidine*  
*Methyl yellow*  
*Moca*

**0342 Benzene**

*Benzol*  
*Benxole*  
*Coal naptha*

*Cyclohextriene*  
*Phene*  
*Phenyl hydride*

**0343 Toluene**

*Methylbenzene*  
*Methylbenzol*

*Phenylmethane*  
*Toluol*

**0344 Xylene**

*Dimethylbenzene*  
*Xylol*

**0349 Aromatics, n.e.c.****035\* Ethers**

This group includes various types of ether. Anesthetic ether is coded under 0351.

**0350 Ethers, unspecified****0351 Diethyl ether**

*Anesthetic ether*  
*Diethyl oxide*  
*Ether*

*Ethoxyethane*  
*Ethyl ether*  
*Ethyl oxide*

\* - Asterisks indicate division, major group, or group titles.

0352	<b>Dimethyl ether</b> <i>Methyl ether</i>	
0353	<b>Ethylene oxide</b> <i>Anprolene</i> <i>Dimethylene oxide</i>	<i>1,2-Epoxyethane</i> <i>Oxirane</i>
0354	<b>Methyl ethyl ether</b>	
0355	<b>Vinyl ether</b>	
0359	<b>Ethers, n.e.c.</b> <i>Dioxane</i>	
036*	<b>Ketones</b>	
This group includes acetone, mesityl oxide, methyl ethyl ketone (MEK), as well as other ketones.		
0360	<b>Ketones, unspecified</b>	
0361	<b>Acetone</b> <i>Dimethyl ketone</i> <i>Propanone</i>	<i>2-Propanone</i> <i>Pyroacetic ether</i>
0362	<b>Mesityl oxide</b>	
0363	<b>Methyl ethyl ketone</b> <i>Butanone</i> <i>Ethyl methyl ketone</i>	<i>MEK</i>
0364	<b>Methyl n-butyl ketone</b> <i>2-hexanone</i> <i>MBK</i>	<i>Propyl acetone</i>
0369	<b>Ketones, n.e.c.</b> <i>Diacetone</i> <i>Diacetone alcohol</i> <i>Diacetyl</i>	<i>Methyl isobutyl ketone</i> <i>Methyl n-propyl ketone</i>
037*	<b>Peroxides</b>	
Included in this group are peroxides. Bleaching agents including hair bleach that contain hydrogen peroxide are included in 0372. Unspecified hair bleaches and dyes are included in 0721, Hair preparations.		
0370	<b>Peroxides, unspecified</b>	
0371	<b>Benzoyl peroxide</b>	
0372	<b>Hydrogen peroxide</b>	
0373	<b>Lithium peroxide</b>	
0374	<b>Potassium peroxide</b>	
0375	<b>Sodium peroxide</b>	
0379	<b>Peroxides, n.e.c.</b>	
038	<b>Multiple aromatics and hydrocarbon derivatives, except halogenated, n.e.c.</b>	

\* - Asterisks indicate division, major group, or group titles.

**039\* Aromatics and hydrocarbon derivatives, except halogenated, n.e.c.****0391 Nitro hydrocarbons**

<i>Acridine</i>	<i>Hydrazine</i>
<i>Aliphatic and organic nitrogen compounds</i>	<i>Nitrobenzene</i>
<i>Dinitrobenzene</i>	<i>4-Nitrobiphenyl</i>
<i>Dinitro-o-cresol</i>	<i>Nitroethane</i>
<i>Dinitrophenol (DNP)</i>	<i>2-Nitropropane</i>
<i>Dinitrotoluene (DNT)</i>	

**0399 Other aromatics and hydrocarbon derivatives, except halogenated, n.e.c.****04\* Halogens and halogen compounds**

This major group contains the halogens--bromine, chlorine, fluorine, iodine, and astatine--and their compounds. Halogenated hydrocarbons, such as carbon tetrachloride, and the fluorocarbons are included in this group. Compounds containing both fluorine and chlorine should be coded under Fluorine and fluorine compounds, 043.

Vinyl chloride and polyvinyl chloride are included under plastics, resins, code 095. Chlorinated hydrocarbons used as insecticides should be classified under that category, code 0652. Acids containing the halogens are included under major group 01, Acids.

This group includes table salt and calcium-, sodium-, and potassium-chlorides (0429) when these specific chemicals are specified. Unspecified salt, rock salt, ice-melting salt, and road salt are classified in Chemical products, n.e.c., code 0799 when the specific chemical is not identified.

*Includes:* Bromine and bromine compounds, chlorine and chlorine compounds, fluorine and fluorine compounds, iodine and iodine compounds

*Excludes:* Acids containing halogens (011, 012); insecticides (065); nonchlorine bleaches (0731 or 0372); vinyl chloride, polyvinyl chloride (0954); lead salts (0541).

**040 Halogens and halogen compounds, unspecified****041\* Bromine and bromine compounds**

**0410 Bromine compounds, unspecified**  
**0411 Bromine**  
**0412 Ethylene dibromide**  
**0413 Methyl bromide**  
**0414 Potassium bromide**  
**0419 Bromine and bromine compounds, n.e.c.**

**042\* Chlorine and chlorine compounds**

**0420 Chlorine compounds, unspecified**  
**0421 Carbon tetrachloride**  
**0422 Chlorine, chlorine bleach**  
**0423 Methyl chloride**  
*Chloromethane*

**0424 Pentachlorophenol**  
**0425 Perchloroethylene**  
**0426 Polychlorinated biphenyls (PCBs)**  
**0427 Trichloroethylene**  
**0429 Chlorine compounds, n.e.c.**

<i>Calcium chloride</i>	<i>Ethyl chloride</i>
<i>Chloroethane</i>	<i>Methylene chloride</i>
<i>Chloroform</i>	<i>Phosgene</i>
<i>Dichloromethane</i>	<i>Potassium chloride</i>
<i>Sodium chloride</i>	<i>Table salt</i>
<i>Muriate of potash</i>	<i>White potash</i>

\* - Asterisks indicate division, major group, or group titles.

**043\* Fluorine and fluorine compounds****0430 Fluorine compounds, unspecified****0431 Fluorine****0432 Fluorotrichloromethane***Freon**Monofluorotrichloromethane**Refrigerant 11**Trichlorofluoromethane**Trichloromonofluoromethane***0433 Fluorocarbons, n.e.c.****0434 Methyl fluoride****0439 Fluorine compounds, n.e.c.****044 Iodine and iodine compounds****048 Multiple halogens and halogen compounds****049 Halogens and halogen compounds, n.e.c.***Astatine and compounds***05\* Metallic particulates, trace elements, dusts, powders, fumes**

This group includes metallic fumes, particulates, and liquid solutions other than molten metals. Welding fumes as well as fumes from other heating or smelting processes are included. When the injury is due to solid metal ores, or due to the radiation properties of a metal, use Metallic minerals, code 54.

Finished metal products should be coded under the appropriate functional category.

*Includes:* Arsenic, arsenic compounds, beryllium and beryllium compounds, cadmium and cadmium compounds, lead and lead compounds, mercury and compounds, aluminum and aluminum compounds, antimony, chromium and chromium compounds, iron and iron compounds, magnesium and magnesium compounds, manganese, nickel and nickel compounds, zinc and zinc compounds, welding or soldering fumes, unspecified or n.e.c.

*Excludes:* Finished metal products; molten or solid metals; radiating metals (542); coal dust (081); grain dust (525); and other nonmetallic dusts (95)

**050 Metallic particulates, trace elements, dusts, powders, fumes, unspecified****051 Arsenic, arsenic compounds****052 Beryllium and beryllium compounds****053 Cadmium and cadmium compounds****054\* Lead and lead compounds**

This group includes both organic and inorganic lead compounds. When it cannot be determined whether the substance is organic or inorganic, use code 0540, Lead and lead compounds, unspecified.

**0540 Lead and lead compounds, unspecified****0541 Inorganic lead compounds***Lead dioxide**Lead oxide**Lead salts**Lead soaps*

\* - Asterisks indicate division, major group, or group titles.

<b>0542</b>	<b>Organic lead compounds</b> <i>Alkyl lead</i> <i>Lead acetate</i> <i>Lead arsenate</i>	<i>Tetraethyl lead</i> <i>Tetramethyl lead</i>
<b>0549</b>	<b>Lead and lead compounds, n.e.c.</b>	
<b>055</b>	<b>Mercury and compounds</b>	
<b>056*</b>	<b>Other metallics and compounds</b>	
<b>0561</b>	<b>Aluminum and aluminum compounds</b>	
<b>0562</b>	<b>Antimony</b>	
<b>0563</b>	<b>Chromium and chromium compounds</b>	
<b>0564</b>	<b>Iron and iron compounds</b>	
<b>0565</b>	<b>Magnesium and magnesium compounds</b>	
<b>0566</b>	<b>Manganese</b>	
<b>0567</b>	<b>Nickel and nickel compounds</b>	
<b>0568</b>	<b>Zinc and zinc compounds</b>	
<b>0569</b>	<b>Other metallics and compounds, n.e.c.</b>	
<b>057</b>	<b>Welding or soldering fumes, unspecified or n.e.c.</b>	
	This category includes fumes and vapors from the welding, brazing, soldering, and cutting of galvanized steel as well as other metals, with the exception of lead. Fumes containing lead compounds should be coded under Lead and lead compounds, code 054. Fumes given off by other heat processes including smelting should be coded under the appropriate metal compound, if known. If unknown, the unspecified category 050 should be used.	
<b>058</b>	<b>Multiple metallics and metallic compounds</b>	
<b>059</b>	<b>Metallic particulates, trace elements, dusts, powders, fumes, n.e.c.</b>	
<b>06*</b>	<b>Agricultural chemicals and other pesticides</b>	
	This category includes such substances as insecticides, pesticides, herbicides, fumigants, rodenticides, and fungicides. These substances should be coded in this category whether used in the agricultural and horticultural industries, by commercial exterminating and pest control companies or by companies in other industries. Mixtures of plant foods and fertilizers with herbicides are coded under 064, herbicides. Only fertilizers not elsewhere classifiable should be included in code 061. An unspecified pesticide should be coded 060.	
	Lime should be classified under code 021, Calcium hydroxide, calcium oxide. Ammonium compounds should be classified under code 091.	
	<i>Includes:</i>	Fertilizers and plant food, n.e.c.; fumigants, n.e.c.; fungicides; herbicides; insecticides; rodenticides
	<i>Excludes:</i>	Ammonium compounds (091); calcium hydroxide, calcium oxide, lime (021); muriate of potash, white potash (0429).
<b>060</b>	<b>Agricultural chemicals and other pesticides, unspecified</b>	
<b>061</b>	<b>Fertilizers, plant food, n.e.c.</b>	
	This category includes fertilizers and plant foods not elsewhere classifiable. Mixtures of fertilizers and plant foods with herbicides are included under 064, Herbicides.	
	<i>Superphosphates</i>	
<b>062</b>	<b>Fumigants, n.e.c.</b>	

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\* - Asterisks indicate division, major group, or group titles.



Included in this category are substances in the form of "smoke" or fumes used as an exterminating agent and that are not classifiable elsewhere. Fumigants used as disinfecting agents are classified under code 0732, if the specific chemical is unknown.

**063 Fungicides**

Included in this category are the various substances used to destroy or control the growth of fungi within an agricultural or horticultural setting. Fungicides used in other commercial or industrial settings should be coded under Cleaning and polishing agents, code 073.

*Dithiocarbamates*  
*Ferban*  
*Maneb*  
*Nabam*

*Organic mercurials (used in seed dressing)*  
*Pentachlorophenols*  
*Zineb*  
*Ziram*

**064\* Herbicides**

Chemicals in this category are used to control plant growth of various types. This category includes weed killers. Also included in this category are mixtures of plant foods and fertilizers with herbicides.

**0640 Herbicides, unspecified**  
*Weed killer***0641 Benzoic and phenylacetic acids**

<i>Chlorfenec</i>	<i>2,4-D</i>
<i>Dicamba</i>	<i>2, 4-DEP</i>
<i>Erbon</i>	<i>2,4,5-T</i>
<i>MCPA</i>	<i>2,3,6-TBA</i>
<i>MCPB</i>	<i>2, 4, 5-Trichlorophenoxyacetic acid (2, 4, 5-T)</i>
<i>Silvex</i>	<i>-(2,4,5-trichlorophenoxy) propionic acid</i>
	<i>4-chloro-2-methylphenoxyacetic acid</i>

**0642 Bipyridyls**

*Diquat* *Paraquat*

**0643 Carbamate and thiocarbamate herbicides**

*Vapam*

**0644 Dinitro compounds**

*Dinosam (DNAP)* *Dinitro-orthoeresol (DNOC)*  
*Dinoseb (DNBP)*

**0645 Phenols**

*Pentachlorophenol*

**0646 Triazines**

*Atrazine*  
*Simazine*  
*2-chloro-4, 6-bis(ethylamino)-S-triazine*

**0649 Herbicides, n.e.c.**

*Agent orange*  
*Chlorates*  
*Crag herbicide*  
*Delapon*  
*Diuron*  
*Fenuron*  
*Mixtures of plant foods and fertilizers with herbicides*  
*Monuron*

**065\* Insecticides**

This category includes various chemicals used to control insects and is broken down into organochlorine compounds or chlorinated hydrocarbons; organophosphorus compounds; carbamates; and other compounds. When insecticides from two or more of these categories produced the injury or illness, code 0658 should be used.

**0650 Insecticides, unspecified**

\* - Asterisks indicate division, major group, or group titles.

**0651 Carbamate insecticides**

<i>Aldicard</i>	<i>Thiram</i>
<i>Baygon</i>	<i>Vapam</i>
<i>Carbaryl (Sevin)</i>	<i>Zectran</i>
<i>Propoxur</i>	

**0652 Organochlorine compounds**

<i>Benzene hexachloride (BHC)</i>	<i>Dieldrin</i>	<i>Lindane</i>
<i>Chlordane</i>	<i>Endrin</i>	<i>Mirex</i>
<i>DDT</i>	<i>Heptachlor</i>	<i>Thiodan</i>
<i>Dicofol (Kelthane)</i>	<i>Kepone</i>	<i>Toxaphene</i>

**0653 Organophosphorus compounds**

<i>Abate</i>	<i>Dursban</i>	<i>Mevinphos</i>
<i>Bidrin</i>	<i>EPN</i>	<i>Organophosphates</i>
<i>DDVP (Vapona)</i>	<i>Ethion</i>	<i>Parathion</i>
<i>Demeton</i>	<i>Fenthion (Baytex)</i>	<i>Phenylsulphtion</i>
<i>Diazinon</i>	<i>Gardona</i>	<i>Phorate</i>
<i>Dibrom (Naled)</i>	<i>Guthion</i>	<i>Phosdrin</i>
<i>Dicathon</i>	<i>Malathion</i>	<i>Supracide</i>
<i>Diclorvo</i>	<i>Metasystox</i>	<i>Systox</i>
<i>Dimethoate (Cygon)</i>	<i>Methyl parathion</i>	<i>TEPP</i>
<i>Tetraethyl pyrophosphate</i>	<i>Thimet</i>	

**0658 Multiple insecticides****0659 Insecticides, n.e.c.**

<i>Kerosene insecticides</i>	<i>Pyrethrum</i>
<i>Nicotine</i>	<i>Rotenone</i>

**066 Rodenticides**

Included in this category are various substances used to destroy or control mice, rats, squirrels, and other rodents.

<i>Coumarins</i>	<i>Pival (Pivalyn)</i>	<i>Strychnine</i>
<i>Diphacin</i>	<i>PMP</i>	<i>Thallium sulfate</i>
<i>Fluoroacetates</i>	<i>Sodium Fluoroacetate</i>	<i>Valone</i>
<i>Indandiones</i>	<i>Squill and derivatives</i>	<i>Warfarin</i>
		<i>Zinc phosphide</i>

**068 Multiple agricultural and horticultural chemicals**

This category includes combinations of agricultural and horticultural chemicals or pesticides, when these chemicals are classifiable under two or more different 3-digit categories. Excluded from this category are mixtures of fertilizers or plant foods and herbicides which are coded under 064, Herbicides.

**069 Agricultural and horticultural chemicals, n.e.c.**

This category includes other agricultural chemicals and pesticides not classifiable elsewhere.

**07\* Chemical products--general**

This category includes chemical products of various types. This category should be used only when the specific chemical is unknown or is not classifiable elsewhere.

*Includes:* Adhesives, alcoholic beverages, beauty products, cleaning agents, cosmetics, drugs, explosives, glues, medicines, paints, lacquers, varnishes, solvents, and degreasers

*Excludes:* Specified chemicals.

\* - Asterisks indicate division, major group, or group titles.

**070 Chemical products, unspecified****071 Adhesives, glues, n.e.c.**

This group includes adhesives, glues and pastes that are not elsewhere classified.

**072\* Beauty preparations, cosmetics, n.e.c.**

This group includes beauty preparations and other cosmetics. Soaps, shampoos, and dyes used as hair preparations or cosmetics are classified in this category. Other shampoos, detergents, and soaps used for commercial or industrial purposes are coded to group 073, Cleaning and polishing agents, n.e.c..

**0720 Beauty preparations, cosmetics, unspecified****0721 Hair preparations***Conditioners**Dyes**Hair sprays**Hair straighteners**Mousses**Rinses**Perming solutions**Setting gels**Shampoos***0729 Other beauty preparations, cosmetics***Face masks**Make-up**Soaps***073\* Cleaning and polishing agents, disinfectants, n.e.c.**

This group includes detergents, bleaches, soaps, polishes, disinfectants, and drain and oven cleaners that are not classifiable to specific chemical categories.

Soaps and shampoos used as hair preparations or as cosmetics are classified under code 072, Beauty preparations and cosmetics. Chlorine bleach and other chlorine-based cleansers are coded under Chlorine and chlorine compounds, code 042. Ammonia and ammonia compounds are included under 091. Solvents are coded under 077; drycleaning fluids under 0773. Drain and oven cleaners containing lye are coded under 024, Sodium and potassium hydroxides; those containing sulfuric acid are coded under 0134. Cleaners containing phosphoric acid are coded under 0133.

**0730 Cleaning and polishing agents, unspecified****0731 Bleach--nonchlorine, nonperoxide****0732 Disinfectants****0733 Drain and oven cleaners****0734 Polishes****0735 Scouring powders****0736 Soap products****0737 Synthetic detergents and shampoos****0738 Multiple cleaning and polishing agents****0739 Other cleaning and polishing agents***Floor stripper**Other and unspecified cleaners***074\* Drugs, alcohol, medicines**

This category includes prescription drugs, nonprescription or over the counter drugs, as well as alcoholic beverages and drugs used for nonmedicinal purposes. Alcohol in preparations not intended for consumption are coded under 031. Alcoholic beverages and nonmedicinal drugs should not be coded for secondary source. Vaccines are coded in 0749.

**0740 Drugs and medicines, unspecified****0741 Alcoholic beverages****0742 Drugs--nonmedicinal****0743 Medicines****0748 Multiple drugs, medicines****0749 Drugs and medicines, n.e.c.**

\* - Asterisks indicate division, major group, or group titles.

**075\* Explosives, blasting agents, n.e.c.**

This category includes explosives, materials used as detonators, gunpowder, and fireworks. Excluded from this category are substances classifiable to specific chemical or mineral categories. Ammonium nitrate is coded 0913. Ammunition is included in major group 91.

**0750 Explosives, blasting agents, unspecified****0751 Dynamite****0752 Flammable gas, unspecified****0753 Gunpowder****0754 Pyrotechnics, fireworks****0759 Other explosives, blasting agents***Blasting cap**Detonator***076\* Paint, lacquer, shellac, varnish, n.e.c.**

This category includes various types of paints and other finishes such as varnishes, shellacs, and lacquers. Epoxy is coded under 0952 Resins. Urethane and polyurethane is code 0953.

**0760 Paint, lacquer, shellac, varnish, unspecified****0761 Lacquer, shellac, varnish****0762 Paint****0768 Multiple paint, lacquer, shellac, or varnishes****0769 Other paint, lacquer, shellac, varnish****077\* Solvents, degreasers, n.e.c.**

This category includes solvents and degreasers, not elsewhere classifiable. Carbon tetrachloride, perchloroethylene, and trichloroethylene are coded under Chlorine and chlorine compounds, code 042.

**0770 Solvents, degreasers, unspecified****0771 Naptha solvents***Benzine**Cleaners' naptha**Mineral spirits**Naptha**Napthalene**Petroleum ether**Stoddard solvent***0772 Paint removers, thinners****0773 Dry cleaning fluids, n.e.c.****0778 Multiple solvents, degreasers****0779 Other solvents, degreasers****079\* Other chemical products, n.e.c.**

This category includes other general chemical products, not elsewhere classifiable.

*Includes:* Dyes, inks, tear gas, mace, photographic and copying solutions, rock salt and road salt when the specific chemical is unknown

**0790 Other chemical products, unspecified****0791 Dyes, inks****0792 Tear gas, mace***Bromobenzyl cyanide**Chloroacetophenone**Ethylidoacetate**Lacrimogenic gas**Pepper spray*

\* - Asterisks indicate division, major group, or group titles.

**0793 Photographic and copying solutions**

*Clearing agents*  
*Copying machine fluids*  
*Developers*  
*Film developing solutions*  
*Fixers*

*Photographic chemicals*  
*Mimeograph fluid*  
*Stop baths*  
*Surfactants*  
*Toners*

**0799 Chemical products, n.e.c.**

*Ice-melting salt*  
*Road salt*

*Rock salt*  
*Salt*

**08\* Coal, natural gas, petroleum fuels and products, n.e.c.**

This category includes coal, natural gas, petroleum, and petroleum fuels and distillates. Excluded from this category are petroleum solvents (077), and agricultural chemicals and other pesticides (major group 06).

*Includes:* Coal, coal dust, coke, crude oil, gasoline, natural gas, petroleum, petroleum distillates and fuels

*Excludes:* Agricultural chemicals and other pesticides (06); paints (076); petroleum solvents (077); asphalt, roofing tar (461).

**080 Coal, natural gas, petroleum fuels and products, unspecified****081\* Coal and coal products**

**0810 Coal products, unspecified**  
**0811 Coal**  
**0812 Coke and other coal manufactures**  
**0819 Coal and coal products, n.e.c.**

**082 Natural gas****083 Petroleum, crude oil****084\* Petroleum fuels, distillates, products, n.e.c.**

**0840 Petroleum fuels, distillates, products, unspecified**  
**0841 Butane**  
**0842 Gasoline, diesel fuel, jet fuel**  
**0843 Kerosene, heating oil**  
**0844 Lubricating greases, cutting oils**  
**0845 Propane**  
**0849 Other petroleum fuels, distillates, products**

**089 Coal, natural gas, petroleum fuels and products, n.e.c.****09\* Other chemicals**

This category includes ammonia and its compounds, cryogenic gases, certain cyanide compounds, oxygen and certain oxides, plastics and resins, sewer and mine gas, methane, sulfur and sulfur compounds, and other chemical and chemical products not elsewhere classifiable.

*Includes:* Ammonia and ammonium compounds, carbon dioxide, carbon monoxide, cryogenic gases, cyanide and cyanide compounds, n.e.c., dry ice, methane, mine gas, oxygen and oxygen compounds, n.e.c. plastics, resins, sewer gas, sulfur, sulfur compounds, sulfur dioxide

\* - Asterisks indicate division, major group, or group titles.

**091\* Ammonia and ammonium compounds**

This group includes ammonia in various forms as well as ammonium compounds. This group includes ammonium compounds used as fertilizers, cleansers, explosives, etc.

- 0910 Ammonia and ammonium compounds, unspecified**
- 0911 Ammonia, anhydrous ammonia**
- 0912 Ammonium hydroxide**
- 0913 Ammonium nitrate**
- 0914 Ammonium sulfate**
- 0918 Multiple ammonia and ammonium compounds**
- 0919 Ammonia and ammonium compounds, n.e.c.**

**092\* Cryogenic gases**

This group includes liquified gases at very low temperatures.

- 0920 Cryogenic gases, unspecified**
- 0921 Liquid fluorine**
- 0922 Liquid helium**
- 0923 Liquid hydrogen**
- 0924 Liquid nitrogen**
- 0925 Liquid oxygen**
- 0929 Cryogenic gases, n.e.c.**
  - Liquified argon*
  - Liquified krypton*
  - Liquified neon*
  - Liquified xenon*

**093\* Cyanide and cyanide compounds, n.e.c.**

This group includes cyanide and its compounds, not elsewhere classifiable. Cyanates and isocyanates that are used in the manufacture of plastics are coded under Plastics, resins--code 095.

- 0930 Cyanide and cyanide compounds, unspecified**
- 0931 Hydrogen cyanide**
- 0938 Multiple cyanides**
- 0939 Other cyanide and cyanide compounds**

**094\* Oxygen and oxygen compounds, n.e.c.**

This group includes carbon monoxide, carbon dioxide, dry ice, various nitrogen oxides, nonliquified oxygen, and ozone. Carbon monoxide resulting from the incomplete combustion of fuels and that contained in motor vehicle exhaust gas, blast furnace gas, or kiln vapor is included in 0941. Smoke and fire gases are included in code 9342. Liquified oxygen is coded under 092, Cryogenic gases. Sulfur dioxide is coded 0973.

- 0940 Oxygen and oxygen compounds, n.e.c.**
- 0941 Carbon monoxide**
  - Blast furnace gas*
  - Kiln vapor*
  - Motor vehicle exhaust gas*
  - Results of incomplete combustion of fuels*
- 0942 Carbon dioxide, dry ice**
- 0943 Nitrogen oxides**
  - Dinitrogen pentoxide*
  - Dinitrogen tetroxide*
  - Laughing gas*
  - Nitric oxide*
  - Nitrogen dioxide*
  - Nitrogen trioxide*
  - Nitrous oxide*
  - Other oxides of nitrogen*
- 0944 Oxygen, nonliquified**

\* - Asterisks indicate division, major group, or group titles.

**0945 Ozones****0948 Multiple oxygen and oxygen compounds****0949 Other oxygen and oxygen compounds, n.e.c.****095\* Plastics, resins**

This group includes various substances and intermediate products used in the manufacture of plastics and resins, including cyanates, resins, urethanes, vinyl chloride, and various elasticizers, monomers, and polymers.

**0950 Plastics, unspecified**

*Fumes from unspecified plastics*

**0951 Cyanates**

*Cyanates*

*Di-isocyanates*

*Isocyanates*

*Toluene-di-isocyanates (TDI)*

**0952 Resins**

*Acrylic resin*

*Epoxy resin*

*Resin*

*Silicone resin*

**0953 Urethanes**

*Polyurethane*

*Urethane*

**0954 Vinyl chloride, polyvinyl chloride**

*Polyvinyl chloride*

*Polyvinyl chloride monomer*

*Vinyl chloride*

*Vinyl chloride monomer*

**0959 Plastics, resins, n.e.c.**

*Bakelite*

*Elastomer*

*Ethyl silicate*

*Ethylene diamine*

*Monomer*

*PAPI (polymeric MDI)*

*Polymer*

*Polypropylene*

*Polystyrene*

*Polyvinyl acetate*

**096\* Sewer gas, mine gas, methane**

This group includes sewer and mine gas and fumes that are not classifiable elsewhere.

**0960 Sewer gas, mine gas, unspecified****0961 Methane gas****0962 Mine gas****0963 Sewer gas****097\* Sulfur and sulfur compounds**

This group includes carbon bisulfide, hydrogen sulfide, sulfur dioxide, and other sulfur compounds.

**0970 Sulfur and sulfur compounds, unspecified****0971 Carbon bisulfide**

*Carbon disulfide*

**0972 Hydrogen sulfide****0973 Sulfur dioxide****0978 Multiple sulfur and sulfur compounds****0979 Sulfur and sulfur compounds, n.e.c.**

\* - Asterisks indicate division, major group, or group titles.



**098\* Multiple chemicals or chemical mixtures, n.e.c.**

This category is to be used for toxic, noxious, and otherwise injurious fumes, vapors, or chemical exposures resulting from the mixing or combining of chemicals or chemical products from different major groups. This code may also be applicable as the secondary source for explosions resulting from the mixture of two or more chemicals falling in different two-digit categories.

This category also includes cases where two or more chemicals or chemical products falling in different two-digit categories are named as the source or secondary source or when the nonspecific "Multiple chemicals" is the source or secondary source.

**0980 Multiple chemicals or chemical mixtures, unspecified****0981 Ammonia and chlorine****0982 Chlorine and phosphoric acid****0983 Chlorine and cleaning agent, n.e.c.****0989 Other multiple chemicals or chemical mixtures****099 Chemicals and chemical products, n.e.c.***Acetylene**Esters**Flux**Metal cleaning compounds, unspecified**Metal plating solutions, unspecified**Phosphine**Potting compound hardener*

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\* - Asterisks indicate division, major group, or group titles.

**1\* CONTAINERS**

This division classifies receptacles that are commonly used to hold, store, or carry materials. All containers may be empty or full. Pressurized and nonpressurized containers are fix-shaped receptacles used to hold, store, or carry materials. Variable restraint containers include bundles, packages, and rolls where the material being contained is usually the surface of the container.

*Includes:* Pressurized containers; nonpressurized containers; variable restraint containers; dishes, cups, glasses; luggage; skids and pallets, septic tanks

*Excludes:* Cases, cabinets, racks, shelves (21); bathtubs (2421); coffee makers (3321); hot tubs (645); sleeping bags, back packs, portable coolers, and thermoses (781); storm drains and pipes (6443)..

**10 Containers, unspecified****11\* Containers--nonpressurized**

This major group classifies nonpressurized containers which are fix-shaped receptacles used to hold, store, or carry materials.

*Includes:* Bags, sacks, totes; barrels, kegs, drums; bottles, jugs, flasks; boxes, crates, cartons; buckets, baskets, pails; cans; pots, pans, trays; tanks, bins, and vats.

*Excludes:* Pressurized containers (12); variable restraint containers (13) dishes, drinking cups, and beverage glasses (14); luggage (15); and skids and pallets (16); groceries (528); laundry (924).

**110 Containers--nonpressurized, unspecified****111 Bags, sacks, totes**

*Mail pouches*

*Packets*

**112 Barrels, kegs, drums**

*Barrels--coopered wooden*

*Breaker*

*Casks*

*Drums--fiber*

*Firkins*

*Kegs--coopered wooden*

*Kilderkins*

*Milk shipping containers*

*Oil drums*

*Shipping drums*

**113 Bottles, jugs, flasks**

*Bottles--paper*

*Decanters*

*Hot-water bottles*

*Jars*

*Medicine bottles*

*Milk bottles*

*Packing bottles*

*Packing jugs*

*Vials*

*Water bottles*

**114 Boxes, crates, cartons**

*Ammunition boxes*

*Boxes--cardboard*

*Boxes--corrugated*

*Boxes--fiberboard*

*Boxes--filing*

*Boxes--gaylord*

*Boxes--newsboard*

*Boxes--setup*

*Boxes--wooden*

*Cases--plastic utility*

*Chicken coops (crates)*

*Coffins*

*Egg cartons*

*Food boxes*

*Mailing cases*

*Mailing crates*

*Milk, ice cream cartons*

*Shipping crates*

*Shipping hampers*

*Tubes--cardboard*

\* - Asterisks indicate division, major group, or group titles.

<b>115</b>	<b>Buckets, baskets, pails</b>	
	<i>Baskets--wicker</i>	<i>Flower and fruit baskets</i>
	<i>Baskets--wire</i>	<i>Gambion baskets (unassembled)</i>
	<i>Baskets--wooden</i>	<i>Lobster pots</i>
	<i>Buckets--coopered wooden</i>	<i>Milk pails</i>
	<i>Buckets--metal</i>	<i>Picnic baskets</i>
	<i>Bushels</i>	<i>Pitchers</i>
	<i>Dinner pails</i>	<i>Slop pails</i>
<b>116</b>	<b>Cans</b>	
	<i>Aluminum cans</i>	<i>Gasoline cans</i>
	<i>Beverage cans</i>	<i>Milk cans</i>
	<i>Canisters</i>	<i>Oil cans</i>
	<i>Canned foods</i>	<i>Packing cans</i>
	<i>Foil-fiber cans</i>	<i>Tin cans</i>
	<i>Food cans</i>	<i>Trash cans</i>
	<i>Garbage cans</i>	<i>Watering cans</i>
<b>117</b>	<b>Pots, pans, trays</b>	
	<i>Ashtrays</i>	<i>Kettles--nonpressurized</i>
	<i>Bakepans</i>	<i>Pans--kitchen</i>
	<i>Breadpans</i>	<i>Pots--kitchen</i>
	<i>Cake pans</i>	<i>Serving trays</i>
	<i>Dishpans</i>	<i>Skillets</i>
	<i>Dustpans</i>	<i>Trays--plastic</i>
	<i>Frying pans</i>	<i>Woks</i>
<b>118</b>	<b>Tanks, bins, vats</b>	
	<i>Aquaria</i>	<i>Tanks--coopered</i>
	<i>Cisterns</i>	<i>Trash bins</i>
	<i>Dumpsters</i>	<i>Troughs</i>
	<i>Farm storage tanks</i>	<i>Tubs--coopered</i>
	<i>Hoppers</i>	<i>Tubs--excluding bathtubs</i>
	<i>Melting pots</i>	<i>Vats--wooden</i>
	<i>Oil storage tanks</i>	<i>Water tanks</i>
	<i>Septic tanks</i>	<i>Silos</i>
<b>119</b>	<b>Containers--nonpressurized, n.e.c.</b>	
	<i>Air cargo containers</i>	<i>Aluminum containers for bakery goods and frozen foods</i>
<b>12*</b>	<b>Containers--pressurized</b>	
	This major group classifies pressurized containers which are fix-shaped receptacles used to hold, store, or carry gases, vapors, or liquids.	
	<i>Includes:</i>	Boilers; hoses; pressure lines
	<i>Excludes:</i>	Air and gas compressors (3991); pressure-cooking equipment (332); pipes, ducts, tubing (412); valves (423).
<b>120</b>	<b>Containers--pressurized, unspecified</b>	
<b>121</b>	<b>Boilers</b>	
	<i>Industrial boilers</i>	<i>Power boilers</i>
	<i>Marine boilers</i>	<i>Pressure stills</i>
<b>122</b>	<b>Hoses</b>	
	<i>Fire hoses</i>	<i>Hoses--plastic</i>
	<i>Garden, Water hoses</i>	<i>Hoses--rubber</i>
	<i>Hoses--metal</i>	<i>Pneumatic hoses</i>
<b>123</b>	<b>Oxygen tanks</b>	
<b>124</b>	<b>Pressure lines, except hoses</b>	
<b>125</b>	<b>Propane tanks</b>	

\* - Asterisks indicate division, major group, or group titles.

**129 Containers--pressurized, n.e.c.***Air receiver tanks**Beer kegs**Pressure cylinders**Pressure gas tanks**Pressure housings***13\* Containers--variable restraint**

This major group classifies containers including bundles, packages, and rolls where the material being contained is usually the surface of the container (that is, the item is not contained by anything distinct)..

*Includes:* Bundles, bales; packages, parcels; reels, rolls

*Excludes:* Nonpressurized containers (11); pressurized containers (12)

**130 Containers--variable restraint, unspecified****131 Bundles, bales***Bales of cotton**Bales of hay**Bundles of shingles***132 Packages, parcels***Mailing packages, parcels**Paper packages, parcels***133 Reels, rolls***Beams, bolts of fabric**Reels of metal banding, wire**Reels of steel wool**Rolls of carpet**Rolls of fabric**Rolls of paper***139 Containers--variable restraint, n.e.c.****14\* Dishes, drinking cups, beverage glasses**

This major group classifies containers which are commonly used for drinking and eating.

*Includes:* Dishes, bowls; drinking cups, beverage glasses

*Excludes:* Bottles (113); pitchers (115); pots, pans, trays (117); cooking and eating utensils (792)

**140 Dishes, drinking cups, beverage glasses, unspecified****141 Dishes, bowls***Bowls--any use or composition**Dishes--any use or composition***142 Drinking cups, beverage glasses***Cups--drinking**Glasses--drinking***149 Dishes, drinking cups, beverage glasses, n.e.c.****15\* Luggage, handbags**

This major group classifies container-carriers which are used for holding and carrying personal belongings.

*Includes:* Briefcases; handbags, pocketbooks, wallets; and suitcases.

*Excludes:* Footlockers, chests (212); lockers (215 ); back packs (781).

\* - Asterisks indicate division, major group, or group titles.

<b>150</b>	<b>Luggage, handbags, unspecified</b>	
<b>151</b>	<b>Briefcases</b> <i>Portfolios</i>	
<b>152</b>	<b>Handbags, pocketbooks, wallets</b> <i>Billfolds</i> <i>Book bags</i> <i>Cosmetic pouches</i>	<i>Purses</i> <i>Shoulder bags</i>
<b>153</b>	<b>Suitcases</b> <i>Gym bags</i> <i>Overnight bags</i>	<i>Suit bags</i>
<b>159</b>	<b>Luggage, handbags, n.e.c.</b> <i>Duffel bags</i> <i>Golf bags</i>	<i>Musical instrument cases</i>
<b>16</b>	<b>Skids, pallets</b>	
	This major group classifies skids and pallets of any use or composition including those used as working surfaces.	
	<i>Includes:</i>	Skids; pallets; pallet containers
<b>19</b>	<b>Containers, n.e.c.</b>	
	This major group classifies all containers that are not elsewhere classified in the Container division.	

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\* - Asterisks indicate division, major group, or group titles.

**2\* FURNITURE AND FIXTURES**

This division classifies furniture; lighting and plumbing fixtures; and floor, wall, and window coverings. The furniture and fixtures classified here may be of any composition, and may be designed for use in households, businesses, or public buildings.

*Includes:* Cases, cabinets, racks, shelves; floor, wall, and window coverings; furniture; other fixtures

*Excludes:* Heating, cooling, and cleaning machinery and appliances (33); audio and video equipment (391); car seats (489); plumbing systems (612); structures (64); pianos (7951).

**20 Furniture and fixtures, unspecified****21\* Cases, cabinets, racks, shelves**

This major group classifies free-standing or built-in cases, cabinets, counters, racks, lockers, and shelves. These items may be designed for household, office, public building, or other use.

*Includes:* Bookcases; display and storage cabinets, cases; counters, counter tops; garment and other racks; lockers; partitions; shelving.

*Excludes:* Boxes, crates, cartons (114); refrigerated lockers (3314).

**210 Cases, cabinets, racks, shelves, unspecified****211 Bookcases**

*Bookcases--any composition*  
*Bookcases--built-in*

*Bookcases--free-standing*

**212 Cabinets, cases--display, storage**

*Cedar chests*  
*China cabinets*  
*Footlockers*  
*Kitchen cabinets*  
*Medicine cabinets*

*Office or file cabinets*  
*Showcases*  
*Tool chests*  
*Toy chests*  
*Treasure chests*

**213 Counters, counter tops**

*Bar counters*  
*Kitchen counters*

**214 Garment racks, other racks**

*Book and magazine racks*  
*Clothes-drying racks*  
*Coat racks*

*Display racks*  
*Mail-sorting racks*

**215 Lockers**

*Wall lockers*

**216 Partitions**

*Office partitions*

*Room partitions*

**217 Shelving**

*Display shelving*

*Office and store shelving*

**219 Cases, cabinets, racks, shelves, n.e.c.**

\* - Asterisks indicate division, major group, or group titles.

**22\* Floor, wall, window coverings**

This major group classifies floor, wall, and window coverings such as carpets, wallpaper, and curtains.

*Includes:* Floor coverings; wall coverings; window coverings, blinds, shades, or draperies.

*Excludes:* Rolls of carpet or linoleum (133); ceiling tiles (4141); vinyl floor tiles (4144); wood paneling (4152); sheet flooring (4195); siding (4196); wallboard (4198).

**220 Floor, wall, window coverings, unspecified****221 Floor coverings, nonstructural**

*Carpet (except rolls)*

*Linoleum (except rolls)*

**222 Wall coverings**

*Wall panels--acoustic*

*Wallpaper (except rolls)*

**223 Window coverings, blinds, shades, or draperies**

*Blinds*

*Venetian blinds*

*Curtains*

*Window shades*

*Drapes*

**229 Floor, wall, window coverings, n.e.c.****23\* Furniture**

This major group classifies different types of home, office, and workshop furniture.

*Includes:* Beds, bedding, mattresses; benches, workbenches; saw horses; chairs, desks, sofas, tables, and worktables.

*Excludes:* Cases, cabinets, racks, shelves (21); lamps (2411); air mattresses (779); sleeping bags (781); billiard and ping pong tables (789); pianos (7951); sheets, linens (9231).

**230 Furniture, unspecified****231 Beds, bedding, mattresses**

*Bed frames*

*Folding beds*

*Bunk beds*

*Futons*

*Cots*

*Hammocks*

*Cradles*

*Headboards*

*Cribs*

*Water beds*

**232 Benches, workbenches, saw horses**

*Park benches*

*Shop benches*

*Pews*

*Utility benches*

*Saw horses*

*Workbenches*

**233 Chairs**

*Arm chairs*

*High chairs*

*Bar stools*

*Recliners*

*Easy chairs*

*Rocking chairs*

*Folding chairs*

**234 Desks**

*Computer desks*

*School desks*

*Office desks*

*Work stations*

*Roll-top desks*

\* - Asterisks indicate division, major group, or group titles.

235	<b>Sofas</b>	<i>Couches</i>	<i>Love seats</i>
		<i>Divans</i>	<i>Ottomans</i>
		<i>Loungers</i>	<i>Sofa beds</i>
236	<b>Tables, worktables</b>	<i>Card tables</i>	<i>End tables</i>
		<i>Cocktail tables</i>	<i>Folding tables</i>
		<i>Coffee tables</i>	<i>Kitchen tables</i>
		<i>Conference tables</i>	<i>Lamp stands</i>
		<i>Dining tables</i>	<i>Operating tables</i>
		<i>Dressers</i>	
239	<b>Furniture, n.e.c.</b>		
24*	<b>Other fixtures</b>	This major group classifies home, office, and industrial fixtures including lighting equipment and plumbing fixtures.	
		<i>Includes:</i> Lighting equipment; plumbing fixtures.	
		<i>Excludes:</i> Electric parts, wiring (441); plumbing system (612).	
240	<b>Other fixtures, unspecified</b>		
241*	<b>Lighting equipment</b>	This source group classifies home, office, and industrial lighting equipment.	
		<i>Includes:</i> Lamps; light bulbs (incandescent or fluorescent); neon lights, stop lights, chandeliers.	
		<i>Excludes:</i> Electric parts (441); flashlights (7299); flash bulbs (769); lanterns (781).	
	<b>2410 Lighting equipment, unspecified</b>		
	<b>2411 Lamps</b>		
	<b>2412 Light bulbs</b>		
	<b>2419 Lighting equipment, n.e.c.</b>		
242*	<b>Plumbing fixtures</b>	This source group classifies home, office, and industrial plumbing fixtures.	
		<i>Includes:</i> Bathtubs; sinks; toilets; showers, faucets.	
		<i>Excludes:</i> Pipes (412); valves (423).	
	<b>2420 Plumbing fixtures, unspecified</b>		
	<b>2421 Bathtubs</b>		
	<b>2422 Sinks</b>		
	<b>2423 Toilets</b>		
	<b>2429 Plumbing fixtures, n.e.c.</b>	<i>Faucets</i>	<i>Showers</i>
249	<b>Other fixtures, n.e.c.</b>		
29	<b>Furniture and fixtures, n.e.c.</b>	<i>Blackboards</i>	<i>Bulletin boards</i>

\* - Asterisks indicate division, major group, or group titles.



**3\* MACHINERY**

This division classifies light and heavy machinery which perform specific functions or processes under power. Machinery is defined as a combination of smaller machines (elements or parts) which are capable of motion and are contained in a stationary frame. Computer, audio, and video products, as well as heating, cooling and cleaning machinery and appliance are also included in this definition.

Machines which are primarily used for transporting people or materials are classified in division 8 (Vehicles). Handheld power tools are classified in major group 72 (Handtools--powered).

If a part is **known or assumed to be attached** to a machine when an injury occurs, then the entire machine should be listed as the source in this division unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a non-transportation incident.

If a part is **known to be unattached and independent** of a machine, or if it is probable that a **machine is not involved**, then that specific part should be selected as the source. The smaller parts which are used in machinery are classified in major group 44 (Machine, tool, and electric parts).

*Includes:* Agricultural and garden machinery; construction, logging, and mining machinery; heating, cooling, and cleaning machinery and appliances; material handling machinery (e.g., conveyors, cranes, hoists, elevators, etc.); metal, woodworking, and special material machinery; office and business machinery; special process machinery; and miscellaneous machinery.

*Excludes:* Hoisting accessories (43); machinery parts (44); motors (4414); engines (4424); nonpowered handtools (71); powered handtools (72); vehicles (8); plant and industrial powered vehicles, tractors (85); forklifts (85).

**30 Machinery, unspecified****31\* Agricultural and garden machinery**

This major group classifies machinery which perform specific agricultural and garden functions or processes.

*Includes:* Harvesting and threshing machinery; mowing machinery; plowing, planting, and fertilizing machinery; and other agricultural and garden machinery.

*Excludes:* Construction, logging, and mining machinery (32); gravity conveyors (341); powered conveyors (342); elevators (346); parts and materials (4); feed wagons (483); vehicles (8); tractors (853).

**310 Agricultural and garden machinery, unspecified****311\* Harvesting and threshing machinery**

This source group classifies agricultural and garden machinery which primarily perform harvesting or threshing functions.

*Includes:* Balers; combines; harvesters, reapers; threshers.

*Excludes:* Mowing machinery (312); logging harvesters (3236); tractors (853).

**3110 Harvesting and threshing machinery, unspecified****3111 Balers****3112 Combines****3113 Harvesters, reapers****3114 Threshers****3119 Harvesting and threshing machinery, n.e.c.**

*Forage choppers*

*Tree shakers*

\* - Asterisks indicate division, major group, or group titles.

**312\* Mowing machinery**

This source group classifies agricultural and garden machinery which primarily perform mowing functions.

*Includes:* Nonriding and riding lawn mowers; tractor mowers; brush hogs.

*Excludes:* Harvesting and threshing machinery (311); handheld powered trimmers, edgers (7229); tractors (853).

**3120 Mowing machinery, unspecified****3121 Lawn mowers--nonriding, powered****3122 Lawn mowers--riding****3123 Mowers--tractor**

*Brush hogs*

*Haying machines*

*Hay mowers*

**3129 Mowing machinery, n.e.c.**

*Push mowers--nonpowered*

**313\* Plowing, planting, and fertilizing machinery**

This source group classifies agricultural and garden machinery which primarily perform plowing, planting, or fertilizing functions. Also included here are plows, discs, cultivators, and spreaders that are attached to tractors.

*Includes:* Plowing and cultivating machinery; seed planting machinery; agricultural spreading machinery.

*Excludes:* Snow plows (3995); vehicles (8); tractors (853).

**3130 Plowing, planting, and fertilizing machinery, unspecified****3131 Plowing and cultivating machinery**

*Cultivators*

*Discs*

*Harrows*

*Plows*

**3132 Seed planting machinery****3133 Spreading machinery--agricultural**

*Fertilizer spreaders*

*Manure spreaders*

**3139 Plowing, planting, and fertilizing machinery, n.e.c.****319\* Other agricultural and garden machinery**

This source group classifies agricultural and garden machinery which perform specific functions or processes other than those previously classified.

*Includes:* Dairy and milk processing machinery; agricultural feed grinders, feed crushers, and feed mixers; agricultural spraying and dusting machinery (except aircraft).

*Excludes:* Construction, logging, and mining machinery (32); gravity conveyors (341); powered conveyors (342); elevators (346); parts and materials (4); feed wagons (483); vehicles (8); crop-dusting aircraft (8112); tractors (853).

**3190 Other agricultural and garden machinery, unspecified**

\* - Asterisks indicate division, major group, or group titles.

- 3191 Dairy and milk processing machinery--specialized**  
*Butter-making machinery* *Homogenizers*  
*Clarifiers* *Milking machines*  
*Cream separators* *Pasteurizers*  
*Evaporators*
- 3192 Feed grinders, crushers, mixers--agricultural**
- 3193 Spraying and dusting machinery--agricultural**
- 3199 Agricultural and garden machinery, n.e.c.**

**32\* Construction, logging, and mining machinery**

This major group classifies machinery which perform specific construction (or demolition), logging, and mining functions or processes. Skid steers are classified according to the type of attachment. If the type of attachment is unknown, use code 320.

*Includes:* Excavating machinery; loaders; logging and wood processing machinery; mining and drilling machinery; road grading and surfacing machinery.

*Excludes:* Agricultural and garden machinery (31); material handling machinery (34); metal, woodworking, and special material machinery (35); vehicles (8); tractors (853).

**320 Construction, logging, and mining machinery, unspecified**

**321\* Excavating machinery**

This source group classifies machinery which primarily perform excavating functions. Excavating machines include those that dig earth and rock (power shovels, backhoes, draglines, trenchers) and place it in separate hauling units, as well as those that pick up and transport material (bulldozers).

*Includes:* Backhoes; bulldozers; steam and power shovels; trenchers.

*Excludes:* Loaders (322); drilling machinery (3241); tunneling machines (3243); hooks, shackles, magnets, clamshells, orange peels, grapples (432); vehicles (8).

**3210 Excavating machinery, unspecified**

**3211 Backhoes**

**3212 Bulldozers**

**3213 Steam and power shovels**

**3214 Trenchers**

*Trenching machines*

*Continuous bucket excavators*

**3219 Excavating machinery, n.e.c.**

*Draglines*  
*Marine dredges*

*Marine excavators*  
*Suction dredges*

\* - Asterisks indicate division, major group, or group titles.

**322\* Loaders**

This source group classifies machinery which primarily perform loading operations. Loaders basically consist of a movable bucket mounted on a series of movable arms at the front of a crawler or rubber-tired tractor. Skid steers with a loading attachment and mini loaders are included here. Skid steers with other types of attachments, such as forklifts, are coded into the appropriate category according to the type of attachment.

*Includes:* Bucket loaders; end loaders; front end loaders.

*Excludes:* Excavating machinery (321); log loaders (3234).

**3220 Loaders, unspecified****3221 Bucket loaders****3222 End loaders****3223 Front end loaders****3229 Loaders, n.e.c.****323\* Logging and wood processing machinery--specialized**

This source group classifies machinery which primarily perform specialized logging and wood processing operations.

*Includes:* Chippers; debarkers; harvesters (logging)

*Excludes:* Agricultural harvesters (3113); other loaders (322); material handling machinery (34); metal, woodworking, and special material machinery (35); paper production machinery (374); other grapples (432); other cable (4423).

**3230 Logging and wood processing machinery--specialized, unspecified****3231 Chippers****3232 Debarkers****3233 Harvesters, including feller-buncher, sheet****3234 Log loaders, including heel boom****3235 Forwarder/yarder****3236 Mechanical harvester****3237 Slasher****3238 Skidder--cable and grapple****3239 Logging and wood processing machinery--specialized, n.e.c.****324\* Mining and drilling machinery**

This source group classifies machinery which primarily perform mining and drilling operations. Mining machinery is used in removing and transporting valuable solid minerals from their place of natural origin to a more accessible location for further processing or transportation. Many mining-type machines are used for excavating in the construction industry and should be classified accordingly. Drilling machinery is generally used to bore vertical holes while tunneling machinery is generally used to bore horizontal holes.

*Includes:* Drilling machines, drilling augers; mineral sorters, separators, concentrators; tunneling machines.

*Excludes:* Coal breakers and crushers (3292); grain augers (3427); augers used as conveyors (3427); nonpowered portable handheld augers (7111); nonpowered portable handheld drills (7113); powered portable handheld augers (7211); powered portable handheld drills (7213).

**3240 Mining and drilling machinery, unspecified****3241 Drilling machines, drilling augers**

*Continuous miners*

*Mechanical miners*

\* - Asterisks indicate division, major group, or group titles.

	<i>Diamond drills</i>	<i>Rock drills</i>
	<i>Jet flame drills</i>	<i>Water-jet drills</i>
3242	<b>Mineral sorters, separators, concentrators</b>	
3243	<b>Tunneling machines</b>	
	<i>Bore tunneling machine</i>	<i>Horizontal boring machine</i>
3249	<b>Mining and drilling machinery, n.e.c.</b>	
	<i>Mineral property analyzers</i>	
325*	<b>Road grading and surfacing machinery</b>	
	This source group classifies machinery which primarily perform road grading and surfacing operations.	
<i>Includes:</i>	Asphalt and mortar spreaders; graders, levellers, planers, scrapers; road linemarking machinery; steam rollers, road pavers.	
<i>Excludes:</i>	Construction, logging, and mining machinery (32); street sweeping and cleaning machinery (3996); vehicles (8).	
3250	<b>Road grading and surfacing machinery, unspecified</b>	
3251	<b>Asphalt and mortar spreaders</b>	
3252	<b>Graders, levellers, planers, scrapers</b>	
3253	<b>Road linemarking machinery</b>	
3254	<b>Steam rollers, road pavers</b>	
	<i>Asphalt pavers</i>	<i>Slip-form pavers</i>
	<i>Concrete pavers</i>	
3259	<b>Road grading and surfacing machinery, n.e.c.</b>	
329*	<b>Other construction, logging, and mining machinery</b>	
	This source group classifies construction, logging, and mining machinery which perform specific functions or processes other than those previously classified.	
<i>Includes:</i>	Mineral agitators, mixers; compactors, crushers, pulverizers; pile drivers, tamping machinery; pile extractors.	
<i>Excludes:</i>	Agricultural and garden machinery (31); steam rollers (3254); material handling machinery (34); metal, woodworking, and special material machinery (35); vehicles (8); tractors (853).	
3290	<b>Other construction, logging, and mining machinery, unspecified</b>	
3291	<b>Agitators, mixers--earth, mineral</b>	
	<i>Cement mixers (except trucks)</i>	
3292	<b>Compactors, crushers, pulverizers--earth, mineral</b>	
	<i>Coal breakers</i>	<i>Coal crushers</i>
3293	<b>Pile drivers, tamping machinery</b>	
	<i>Drop hammers</i>	<i>Pile hammers</i>
3294	<b>Pile extractors</b>	
3299	<b>Construction, logging, and mining machinery, n.e.c.</b>	

\* - Asterisks indicate division, major group, or group titles.

**33\* Heating, cooling, and cleaning machinery and appliances**

This major group classifies machinery which perform specific heating, cooling, and cleaning functions or processes.

*Includes:* Cooling and humidifying machinery and appliances; heating and cooking machinery and appliances; washers, dryers, and cleaning machinery and appliances.

*Excludes:* Boilers (121); dairy and milk processing machinery (3191); industrial furnaces and forging machinery (3533); distilling and rectifying machinery (3792); incinerators (3993); vending machines (3998); engine fans (4824); powered welding and heating handtools (726).

**330 Heating, cooling, and cleaning machinery and appliances, unspecified****331\* Cooling and humidifying machinery and appliances**

This source group classifies machinery which primarily perform cooling and humidifying functions.

*Includes:* Air conditioners; fans, blowers; humidifiers, dehumidifiers, vaporizers; refrigerators, freezers, ice makers.

*Excludes:* Dairy and milk processing machinery (3191); engine fans (4824).

**3310 Cooling and humidifying machinery and appliances, unspecified****3311 Air conditioning units****3312 Fans, blowers--wall, floor, ceiling, ventilation****3313 Humidifiers, dehumidifiers, vaporizers****3314 Refrigerators, freezers, ice makers****3319 Cooling and humidifying machinery and appliances, n.e.c.****332\* Heating and cooking machinery and appliances**

This source group classifies machinery which primarily perform general heating and cooking functions, as well as fabric pressing and steaming functions.

*Includes:* Beverage heating and percolating equipment and appliances; broiling and frying equipment and appliances; fabric pressers and ironing appliances; furnaces, heaters; kilns; ranges, cooking ovens, grills, toasters, food warmers; steaming equipment and appliances.

*Excludes:* Boilers (121); dairy and milk processing machinery (3191); industrial furnaces and forging machinery (3533); distilling and rectifying machinery (3792); incinerators (3993); vending machines (3998); powered welding and heating handtools (726).

**3320 Heating and cooking machinery and appliances, unspecified****3321 Beverage heating and percolating equipment and appliances**  
*Coffee makers***3322 Broiling and frying equipment and appliances****3323 Fabric pressers and ironing appliances**

\* - Asterisks indicate division, major group, or group titles.

**3324 Furnaces, heaters**

*Domestic furnaces*  
*Franklin stoves*  
*Gas and oil furnaces*  
*Heating units*  
*Hot-water heaters*

*Potbellied stoves*  
*Registers*  
*Solar heaters*  
*Space heaters*

**3325 Kilns****3326 Ranges, cooking ovens, grills, toasters, food warmers**

*Camping stoves--portable*  
*Grills--outdoor, indoor*  
*Hibachi*  
*Microwave ovens*  
*Ovens--kitchen, cooking*

*Ranges--kitchen, cooking*  
*Roasters*  
*Stoves--kitchen, cooking*  
*Toasters*  
*Waffle irons*

**3327 Steaming equipment and appliances****3329 Heating and cooking machinery and appliances, n.e.c.****333\* Washers, dryers, and cleaning machinery and appliances**

This source group classifies machinery which primarily perform washing, drying, and cleaning functions for specific products.

*Includes:* Car washing machinery; clothes dryers; clothes washers; dish washers; hair and hand dryers; vacuum cleaners; other filtering and purifying machinery.

*Excludes:* Kilns (3325); paper production dryers (3743); paper production washers, bleachers, refiners (3746); street sweeping and cleaning machinery (3996).

**3330 Washers, dryers, and cleaning machinery and appliances, unspecified****3331 Car or vehicle washing machinery****3332 Clothes dryers****3333 Clothes washers****3334 Dish washers****3335 Hair and hand dryers****3336 Vacuum cleaners****3339 Washers, dryers, and cleaning machinery and appliances, n.e.c.**

*Other filtering and purifying machinery*

**339 Heating, cooling, and cleaning machinery and appliances, n.e.c.**

This source group classifies heating, cooling, and cleaning machinery which and appliances which perform functions other than those previously classified.

**34\* Material handling machinery**

This major group classifies machinery which perform specific material handling functions or processes. This category also includes machinery, such as elevators and aerial lifts, used to raise and lift workers to a height needed to perform work tasks.

If a part is **known or assumed to be attached** to a machine when an injury occurs, then the entire machine should be listed as the source in this division unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a non-transportation incident.

If a part is **known to be unattached and independent** of a machine, or if it is probable that a **machine is not involved**, then that specific part should be selected as the source.

\* - Asterisks indicate division, major group, or group titles.

Material handling machinery are usually composed of many smaller parts and elements. For example, hoisting machines, cranes, derricks, and elevators employ sheaves and pulleys (called blocks) to perform their operations. The majority of these smaller material handling machinery components are classified in major group 43 (Hoisting accessories), and major group 44 (Machine, tool, and electric parts).

*Includes:* Gravity conveyors; powered conveyors; cranes; overhead hoists; derricks; elevators; jacks; winders, unwinders.

*Excludes:* Agricultural and garden machinery (31); construction, logging, and mining machinery (32); logging and wood processing machinery (323); hoisting accessories (43); machine, tool, and electric parts (44); scaffolds, staging (646); vehicles (8); forklifts (851).

### **340 Material handling machinery, unspecified**

*Package conveyor*

### **341\* Conveyors--gravity**

This source group classifies conveyors which primarily perform conveying functions through the use of gravity. Gravity conveyors are limited to use in instances where the material being conveyed is to be lowered in elevation or rolled along a level path.

*Includes:* Chutes; roller conveyors; wheel conveyors, including skate wheel conveyors.

*Excludes:* Powered conveyors (342); unattached rollers (4427).

#### **3410 Conveyors--gravity, unspecified**

#### **3411 Chutes**

#### **3412 Conveyors--roller**

#### **3413 Conveyors--wheel**

#### **3419 Conveyors--gravity, n.e.c.**

### **342\* Conveyors--powered**

This source group classifies conveyors which primarily perform conveying functions through the use of an electrical or other power source. Powered conveyors are used in instances where the material being conveyed is to be raised, lowered, or moved along a level path. Live roller conveyors are classified in 3424, regardless of whether they are belt or chain driven. Drycleaning and garment conveyors are coded in 3429.

*Includes:* Belt conveyors; bucket, cup conveyors; chain conveyors; live roller conveyors; pan conveyors; pneumatic conveyors; screw and auger conveyors, such as grain augers; slot conveyors.

*Excludes:* Gravity conveyors (341); chain and belt drives (4422).

#### **3420 Conveyors--powered, unspecified**

#### **3421 Conveyors--belt**

#### **3422 Conveyors--bucket, cup**

#### **3423 Conveyors--chain**

#### **3424 Conveyors--live roller**

#### **3425 Conveyors--pan**

#### **3426 Conveyors--pneumatic**

#### **3427 Conveyors--screw, auger**

#### **3428 Conveyors--slot**

#### **3429 Conveyors--powered, n.e.c.**

### **343\* Cranes**

\* - Asterisks indicate division, major group, or group titles.



This source group classifies cranes which primarily are used for lifting heavy weights by means of a movable projecting arm or a horizontal beam traveling on an overhead support.

*Includes:* Floating cranes; gantry cranes; hammerhead cranes; mobile, truck, or rail-mounted cranes; monorail and underhung cranes; overhead cranes; portal, tower, and pillar cranes.

*Excludes:* Overhead hoists (344); derricks (345); elevators (346).

**3430 Cranes, unspecified**  
**3431 Cranes--floating**  
**3432 Cranes--gantry**  
**3433 Cranes--hammerhead**  
**3434 Cranes--mobile, truck, rail mounted**  
**3435 Cranes--monorail and underhung**  
**3436 Cranes--overhead**  
**3437 Cranes--portal, tower, pillar**  
**3438 Storage and retrieval hoist systems**  
**3439 Cranes, n.e.c.**

#### **344\* Overhead hoists**

This source group classifies electric, manual, and pneumatic hoists for raising and lowering material with intermittent motion while holding the material freely suspended. This source group also includes aircraft loading, automobile wrecker, and patient hoists.

*Includes:* Powered and manual overhead hoists.

*Excludes:* Storage and retrieval hoist systems (3438); elevators (346); truck-mounted bucket or basket hoists (3461); hoisting accessories such as fixtures, hooks, or slings (43).

**3440 Overhead hoists, unspecified**  
**3441 Overhead hoists--electric powered**  
**3442 Overhead hoists--manual**  
**3443 Overhead hoists--pneumatic powered**  
**3449 Overhead hoists, n.e.c.**

#### **345\* Derricks**

This source group classifies material handling machinery which primarily function as derricks, hoisting mechanisms which use ropes or cables running on pulleys.

*Includes:* A-frame derricks; basket derricks; breast derricks; gin pole derricks; guy derricks.

*Excludes:* Oil derricks used to support drilling machinery (647).

**3450 Derricks, unspecified**  
**3451 Derricks--A-frame**  
**3452 Derricks--basket**  
**3453 Derricks--breast**  
**3454 Derricks--gin pole**  
**3455 Derricks--guy**  
**3459 Derricks, n.e.c.**

#### **346\* Elevators, aerial lifts**

This source group classifies material handling machinery which is primarily used to lift and lower a load along a fixed vertical path of travel with intermittent motion. This source group also includes farm and grain elevators, building elevators, aerial lifts, and scissorlifts.

\* - Asterisks indicate division, major group, or group titles.

The most common elevators use electric motors, cables, pulleys, and counterweights. If any of these specific parts are listed as the source--and they are known to be unattached and independent of an elevator--they are classified in division 4 (Parts and Materials). If the floor of an elevator car is the source, use code 6222 (Floor of elevator). If the bottom of an elevator shaft is the source, use code 6221 (Floor of building). Elevators are typically coded as the secondary source, for falls down elevator shafts.

*Includes:* Truck-mounted bucket or basket hoists or boom lifts (3461); dumbwaiters (3462); electric elevators (3463); hydraulic elevators (3464); hand-operated elevators (3465); manlifts and scissorlifts (3466); unspecified aerial lifts (3460); cherry pickers (3461).

*Excludes:* Powered conveyors (342); overhead hoists (344); elevator car floors (6222); elevator shaft floors (6221); scaffolds, staging (646); forklifts (851).

**3460 Elevators, aerial lifts, unspecified**  
**3461 Bucket or basket hoist--truck mounted**  
**3462 Dumbwaiters**  
**3463 Elevators--electric**  
**3464 Elevators--hydraulic**  
**3465 Elevators--hand operated**  
**3466 Manlifts**  
**3469 Elevators, aerial lifts, n.e.c.**

### **347\* Jacks**

This source group classifies jacks which are primarily used to lift, bolster, hoist, or move something heavy a short distance.

*Includes:* Hydraulic; mechanical (includes car jacks); pneumatic jacks; bottle jacks.

*Excludes:* Elevators (346), oil well pump jacks (3797); motorized pallet jacks (851\*); nonpowered pallet jacks (861)

**3470 Jacks, unspecified**  
**3471 Jacks--hydraulic**  
**3472 Jacks--mechanical**  
**3473 Jacks--pneumatic**  
**3479 Jacks, n.e.c.**

### **349\* Other material handling machinery**

This source group classifies material handling machinery that has not been previously classified.

*Includes:* Winders, unwinders (3491); ski lifts (3499).

*Excludes:* Agricultural and garden machinery (31); construction, logging, and mining machinery (32); logging and wood processing machinery (323); hoisting accessories (43); machine, tool, and electric parts (44); vehicles (8); forklifts (851).

**3491 Winders, unwinders**  
**3499 Material handling machinery, n.e.c.**

### **35\* Metal, woodworking, and special material machinery**

This major group classifies machinery which primarily perform specific material cutting, shaping, or forming functions or processes. Special material machinery includes those that process plastic, rubber, concrete and other special materials. Many machines classified here are referred to as "Machine Tools"--machines that make the parts for other machines. These machines are commonly used in the manufacturing industries, but may be utilized in other industries as well.

\* - Asterisks indicate division, major group, or group titles.

*Includes:* Bending, rolling, shaping machinery; boring, drilling, planing, milling machinery; extruding, injecting, forming, molding machinery; grinding, polishing machinery; lathes; presses (except printing); sawing machinery; threading and tapping machines; electrochemical and discharge machinery (EDM), laser cutting, pressure fluid cutting, spot welding machinery.

*Excludes:* Agricultural and garden machinery (31); construction, logging, and mining machinery (32); mining and drilling machinery (324); material handling machinery (33); food slicers (3711); meat grinders (3713); paper production machinery (374); textile, apparel, leather production machinery (376); painting, priming, metal coating machinery (3796); nonpowered handtools (71); powered handtools (72); handheld power saws (7224); powered surfacing handtools (724).

### **350 Metal, woodworking, and special material machinery, unspecified**

#### **351\* Bending, rolling, shaping machinery**

This source group classifies machinery which primarily perform metal bending, rolling, or shaping functions to produce workpieces without cutting or removing material. These machines may be used to bend, roll, or shape other materials (e.g., wire, plastics) as well. A calender is a form of press which uses rollers or plates to smooth and glaze cloth, rubber, or paper; or to form these materials into thin sheets. Paper production calendars are classified in 3741 (Calenders/supercalenders--paper production). All other calendars are classified here.

*Includes:* Bending, crimping machines; shearing machines; rolling mills, roll, calendering machinery.

*Excludes:* Calenders used in the paper production industry (3741).

- 3510 Bending, rolling, shaping machinery, unspecified**
- 3511 Bending, crimping machines**
- 3512 Shearing machines**
- 3513 Rolling mills, rolling, calendering machinery**
- 3519 Bending, rolling, shaping machinery, n.e.c.**

#### **352\* Boring, drilling, planing, milling machinery**

This source group classifies machinery which primarily perform material cutting functions (boring, drilling, planing, and milling). The drilling process creates a hole while the boring process enlarges and trues existing holes. Reamers are used to produce precise hole sizes with a smooth finish. Planers cut large, flat surfaces on a workpiece, or cut many small parts simultaneously. Many milling machines are being replaced by machining centers (3523) which do a number of different operations--milling, drilling, boring, facing, spotting, counterboring, threading, and tapping--in a single setup.

*Includes:* Stationary drills; planing machines; milling machines; reaming machines.

*Excludes:* Construction, logging, and mining machinery (32); mining and drilling machinery (324); paper production machinery (374); nonpowered handtools (71); nonpowered boring and drilling handtools (711); powered handtools (72); powered boring and drilling handtools (721).

#### **3520 Boring, drilling, planing, milling machinery, unspecified**

##### **3521 Drills--stationary**

*Drill presses*  
*Drilling machines*  
*Gang drills*

*Jig boring machines*  
*Radial drills*

##### **3522 Planing machines**

\* - Asterisks indicate division, major group, or group titles.

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3523	Milling machines	
	<i>Broaching machines</i>	<i>Machining centers</i>
3524	Reaming machines	

**3529 Boring, drilling, planing, milling machinery, n.e.c.**  
*Gear-cutting machinery                      Nibbling machines*

**353\* Extruding, injecting, forming, molding machinery**

This source group classifies machinery which primarily casts, extrudes, forges, or injects molten metal, plastics, rubber, or other special materials to produce workpieces.

*Includes:*            Casting machinery; extruding machinery; forging machinery; plastic injection molding machinery.

*Excludes:*           Heaters, home furnaces (3324); dies, molds, patterns (4421).

**3530 Extruding, injecting, forming, molding machinery, unspecified**

**3531 Casting machinery**  
*Ingot molding machinery                      Molding machinery (except plastic)*

**3532 Extruding machinery**  
*Plastic extruders                                  Rubber extruders*  
*Wire extruders*

**3533 Forging machinery**  
*Blast furnaces                                  Industrial furnaces*  
*Cold forging machinery                      Industrial ovens*  
*Forges    Smelters*  
*Hot forging machinery*

**3534 Plastic injection molding machinery**

**3539 Extruding, injecting, forming, molding machinery, n.e.c.**

**354\* Grinding, polishing machinery**

This source group classifies machinery which primarily perform material surfacing and finishing operations (by grinding or polishing). Grinding machines usually employ a coarse, abrasive wheel. Honing and lapping machines use abrasive sticks, plates, or rolls for precise metal-finishing operations.

*Includes:*            Grinders, abraders; honing, polishing, lapping machinery.

*Excludes:*           Meat grinders (3713); powered surfacing handtools (724); buffers, polishers, waxers (7241); powered hand grinders (7242).

**3540 Grinding, polishing machinery, unspecified**

**3541 Grinders, abraders**  
*Centerless grinders                              Internal grinders*  
*Cylindrical grinders                              Surface grinders*

**3542 Honing, polishing, lapping machinery**

**3549 Grinding, polishing machinery, n.e.c.**

**355\* Lathes**

This source group classifies lathes which are used to turn and work materials of any composition. Lathes are most commonly used for machining materials to various diameters but may also be used for drilling, boring, threading, knurling, and tapering.

*Includes:*            Metalworking lathes; woodworking lathes.

\* - Asterisks indicate division, major group, or group titles.

*Excludes:* Threading and tapping machines (358); powered turning handtools (725).

**3550 Lathes, unspecified**  
**3551 Metalworking lathes**  
**3552 Woodworking lathes**  
**3559 Lathes, n.e.c.**

**356\* Presses, except printing**

This source group classifies machinery which primarily function as presses, except printing presses.

*Includes:* Assembly presses; brake presses; punch presses.

*Excludes:* Fabric pressers (3323); printing presses (3753).

**3560 Presses, except printing, unspecified**  
**3561 Assembly presses**  
**3562 Brake presses**  
**3563 Punch presses**  
**3569 Presses, except printing, n.e.c.**

**357\* Sawing machinery--stationary**

This source group classifies machinery which primarily perform material sawing operations.

*Includes:* Arm saws, radial saws; band saws; table saws.

*Excludes:* Construction, logging, and mining machinery (32); food slicers (3711); meat grinders (3713); paper production machinery (374); textile, apparel, leather production machinery (376); nonpowered handtools (71); nonpowered saws (7125); powered handtools (72); handheld power saws (7224).

**3570 Sawing machinery--stationary, unspecified**  
*Cutoff saws*

**3571 Arm saws, radial arm saws**

**3572 Band saws**

**3573 Table saws**

**3579 Sawing machinery--stationary, n.e.c.**  
*Abrasive saws* *Diamond saws*

**358 Threading and tapping machines**

This source group classifies machinery which primarily perform material threading and tapping operations. Machines that make screws, bolts, and nuts are classified here.

*Includes:* Threading and tapping machines.

*Excludes:* Lathes (355).

**359\* Other metal, woodworking, and special material machinery**

This source group classifies metal, woodworking, and special material machinery which perform specific functions other than those previously classified.

*Includes:* Electrochemical and discharge machinery (EDM's); laser cutting machinery; pressure fluid cutting machinery; spot welding machinery.

\* - Asterisks indicate division, major group, or group titles.

*Excludes:* Welding fumes (057); agricultural and garden machinery (31); construction, logging, and mining machinery (32); mining and drilling machinery (324); material handling machinery (33); food slicers (3711); meat grinders (3713); paper production machinery (374); textile, apparel, leather production machinery (376); painting, priming, metal coating machinery (3796); nonpowered handtools (71); powered handtools (72); handheld power saws (7224); powered surfacing handtools (724); welding and heating handtools (726).

**3591 Electrochemical and discharge machinery (EDM)**

*Electrochemical machinery (ECM)*

**3592 Laser cutting machinery**

*Carbon-dioxide lasers*

*Gas lasers*

**3593 Pressure fluid cutting machinery**

**3594 Spot welding machinery**

*Oxyacetylene torch*

*Plasma arch torch*

**3599 Metal, woodworking, and special material machinery, n.e.c.**

*Recycling densifier*

*Ultrasonic machinery (USM)*

**36\* Office and business machinery**

This major group classifies machinery and equipment which operate primarily in an office, banking, or retail environment.

*Includes:* Electronic computers and peripheral equipment; automated teller machines (ATM's); calculating machines and cash registers; FAX machines; mailing and metering machines; photocopiers; typewriters and word processing equipment.

*Excludes:* Furniture and fixtures (2); audio and video equipment (391); vending machines (3998); nonpowered staplers (7195); electric staplers (7295).

**360 Office and business machinery, unspecified**

**361\* Electronic computers and peripheral equipment**

This source group classifies mainframe, micro, personal, and mini-computers and the peripheral equipment such as printers and terminals used in conjunction with the computer.

*Includes:* Cathode ray tubes (CRT's) and video display terminals (VDT's); computer monitors and screens; electronic computers; computer keyboards; optical scanners; printers and plotters.

*Excludes:* Audio and video equipment (391); word processors (3626); automated teller machines (3621); robots (392).

**3610 Electronic computers and peripheral equipment, unspecified**

**3611 Cathode ray tubes (CRTs) and video display terminals (VDTs)**

**3612 Computers--electronic**

**3613 Keyboards--computer**

**3614 Optical scanners**

**3615 Printers and plotters--computer**

**3619 Electronic computers and peripheral equipment, n.e.c.**

*Mice*

**362\* Office, banking, and retail machinery**

This source group classifies other machinery and equipment which primarily function in the office, banking, or retail environment.

\* - Asterisks indicate division, major group, or group titles.

*Includes:* Automated teller machines (ATM's); calculating machines and cash registers; FAX machines; mailing and metering machines; photocopiers; typewriters and word processing equipment.

*Excludes:* Electronic computers and peripheral equipment (361); audio and video equipment (391); vending machines (3998); nonpowered staplers (7195); electric staplers (7295).

**3620 Office and banking machinery, unspecified**

**3621 Automated teller machines**

**3622 Calculating machines and cash registers**

**3623 FAX machines**

**3624 Mailing and metering machines**

**3625 Photocopiers**

**3626 Typewriters and word processing equipment**

**3629 Office and banking machinery, n.e.c.**

*Coin-counting machinery*

*Dictating machines*

**37\* Special process machinery**

This major group classifies machinery which perform special processes related to specific industries other than those previously classified.

*Includes:* Food and beverage processing machinery; medical, surgical, and x-ray machinery and equipment; packaging, bottling, wrapping machinery; paper production machinery; printing machinery and equipment; textile, apparel, leather production machinery; other special process machinery.

**370 Special process machinery, unspecified**

**371\* Food and beverage processing machinery--specialized**

This source group classifies special process machinery which are primarily used in the food and beverage industries.

*Includes:* Food slicers; juice, oil, fat extractors; meat grinders; food and beverage mixers, blenders, whippers.

*Excludes:* Packaging, bottling, wrapping machinery (373); bottling, canning, filling machinery (3731).

**3710 Food and beverage processing machinery--specialized, unspecified**

**3711 Food slicers**

**3712 Juice, oil, fat extractors**

**3713 Meat grinders**

**3714 Mixers, blenders, whippers--food and beverage**

**3719 Food and beverage processing machinery--specialized, n.e.c.**

**372\* Medical, surgical, and x-ray machinery and equipment**

This source group classifies special process machinery which are primarily used in medical applications. x-ray machinery classified here may be used in industrial and other research applications as well as medical usage.

*Includes:* Medical machinery and equipment; x-ray, magnetic resonance imaging (MRI's), and fluoroscope machinery and equipment.

*Excludes:* Medical and surgical instruments (75); health care and orthopedic equipment, n.e.c. (794).

**3720 Medical, surgical, and x-ray machinery and equipment, unspecified**

**3721 Medical machinery and equipment, except x-ray**

\* - Asterisks indicate division, major group, or group titles.



**3722 X-ray, magnetic resonance imaging (MRI's), and fluoroscope machinery and equipment**

*Fluoroscopic x-ray*  
*Radiographic x-ray*

*Therapeutic x-ray*

**3729 Medical, surgical, and x-ray machinery**

**373\* Packaging, bottling, wrapping machinery**

This source group classifies special process machinery which primarily perform packaging, bottling, and wrapping operations.

*Includes:* Bottling, canning, filling machinery; packaging, wrapping, bundling machinery (including boxing machinery); product labeling machinery; sealing, stapling machinery.

*Excludes:* Agricultural balers (3111); bindery machinery (3751).

**3730 Packaging, bottling, wrapping machinery, unspecified**

**3731 Bottling, canning, filling machinery**

**3732 Packaging, wrapping, bundling machinery**

**3733 Product labeling machinery**

**3734 Sealing, stapling machinery**

**3739 Packaging, bottling, wrapping machinery, n.e.c.**

**374\* Paper production machinery**

This source group classifies special process machinery which are primarily operated in the paper production industry. A calender is a form of press which uses rollers or plates to smooth and glaze cloth, rubber, or paper; or to form these materials into thin sheets. Paper production calendars are classified here. All other calendars are classified in source code 3513 (Rolling mills, rolling, calendering machinery).

*Includes:* Calenders/supercalenders used in paper production; coaters used in paper production; dryers used in paper production; formers used in paper production; slitters and winders used in paper production; washers, bleachers, and refiners used in paper production.

*Excludes:* Calenders other than those used in paper production (3513); Coating machinery other than those used in paper production (3795).

**3740 Paper production machinery, unspecified**

**3741 Calenders/supercalenders--paper production**

**3742 Coaters--paper production**

**3743 Dryers--paper production**

**3744 Formers--paper production**

**3745 Slitters, winders--paper production**

**3746 Washers, bleachers, refiners--paper production**

**3749 Paper production machinery, n.e.c.**

**375\* Printing machinery and equipment**

This source group classifies special process machinery and equipment which are primarily operated in the printing industry.

*Includes:* Bindery machinery; engraving machinery; printing presses; typesetting machinery.

*Excludes:* Presses other than printing presses (356); laser printers (3615).

**3750 Printing machinery and equipment, unspecified**

**3751 Bindery machinery**

**3752 Engraving machinery**

**3753 Presses--printing**

**3754 Typesetting machinery**

**3759 Printing machinery and equipment, n.e.c.**

\* - Asterisks indicate division, major group, or group titles.

**376\* Textile, apparel, leather production machinery**

This source group classifies special process machinery and equipment which are primarily employed in the textile, apparel, and leather production industries.

*Includes:* Textile dyeing machinery; knitting machinery; picking, carding, combing machinery; sewing, stitching machinery; spinning machinery; weaving machinery.

*Excludes:* Dyeing machinery other than for textiles (3793).

**3760 Textile, apparel, leather production machinery, unspecified****3761 Dyeing machinery--textile****3762 Knitting machinery****3763 Picking, carding, combing machinery****3764 Sewing, stitching machinery****3765 Spinning machinery****3766 Weaving machinery****3769 Textile, apparel, leather production machinery, n.e.c.****379\* Other special process machinery**

This source group classifies special process machinery and equipment which perform special functions or processes other than those previously classified.

*Includes:* Centrifuges; distilling and rectifying machinery; dyeing machinery other than for textiles; gas liquefying machinery; paint mixing machinery; painting, priming, metal coating machinery; pumps.

*Excludes:* Road line marking machinery (3253); textile dyeing machinery (3761); paper coating machinery (3742); powered handheld paint sprayers (7294).

**3790 Other special process machinery, unspecified****3791 Centrifuges****3792 Distilling and rectifying machinery****3793 Dyeing machinery, except textile****3794 Gas liquefying machinery****3795 Paint mixing machinery****3796 Painting, priming, metal coating machinery****3797 Pumps**

*Centrifugal pumps*

*Concrete pumps*

*Fluid power pumps*

*Gasoline pumps*

*Oil well pumps, pump jacks*

*Water, sump pumps*

**3799 Special process machinery, n.e.c.****39\* Miscellaneous machinery**

This major group classifies machinery which perform functions or processes other than those previously classified.

*Includes:* Audio and video equipment; radios, stereos, and other audio equipment; telephones and communication equipment; televisions; tape and disk video players and recorders.

*Excludes:* Hoisting accessories (43); machinery parts (44); motors (4414); engines (4424); nonpowered handtools (71); powered handtools (72); vehicles (8); plant and industrial powered vehicles, tractors (85); forklifts (85).

**391\* Audio and video equipment**

This source group classifies equipment and electronic appliances which are used to transmit, receive, play, and record audio and video communications.

\* - Asterisks indicate division, major group, or group titles.

*Includes:* Radios, stereos, and other audio equipment; telephones and communication equipment; televisions; tape and disk video players and recorders.

*Excludes:* Dictation machines (3629); hospital monitors (3721); computer equipment (361).

**3910 Audio and video equipment, unspecified**  
**3911 Radios, stereos, and other audio equipment**  
**3912 Telephones and communication equipment**  
**3913 Televisions**  
**3914 Video players and recorders--tape and disk**  
**3919 Audio and video equipment, n.e.c.**

**392 Product assembly machinery, n.e.c.**

This source group classifies machinery which perform product assembly operations other than those previously classified.

*Includes:* Robots; assembly line machinery not elsewhere classified;

*Excludes:* Spot welders (3594).

**393 Product testing, inspecting, and diagnostic machinery, n.e.c.**

This source group classifies product testing, inspecting, and diagnostic machinery which other than those previously classified.

*Includes:* Product-vibrating machinery; diagnostic machinery;

*Excludes:* Hospital diagnostic machinery (372); mineral property analyzers (3249).

**399\* Other machinery**

This source group classifies machinery which perform specific functions or processes which are not classified elsewhere in the Machinery division.

*Includes:* Air compressors; garbage disposals; incinerators; snowblowers; snow plows; street sweepers, street cleaning machinery and trucks; trash compactors; vending machines.

*Excludes:* Hoisting accessories (43); machinery parts (44); motors (4414); engines (4424); nonpowered handtools (71); powered handtools (72); vehicles (8); plant and industrial powered vehicles, tractors (85); forklifts (85).

**3990 Other machinery, unspecified**  
**3991 Air compressors**  
**3992 Garbage disposals**  
**3993 Incinerators**  
**3994 Snowblowers**  
**3995 Snow plows**  
**3996 Street sweeping and cleaning machinery**  
**3997 Trash compactors**  
**3998 Vending machines**  
**3999 Machinery, n.e.c.**

*Voting machines*

*Gas meters*

\* - Asterisks indicate division, major group, or group titles.

**4\* PARTS AND MATERIALS**

This division classifies machine parts, tool parts, and automobile parts, as well as building materials, insulating materials, and nonstructural metal materials. Many of the parts and materials classified here are the smaller components of larger machines, tools, vehicles, buildings, etc. In most instances, detailed codes for "parts" are provided for those parts expected to be sources of injury independent of the "whole" machine, tool, vehicle, building, or other object.

If a part is **attached** to a machine, tool, or vehicle, then the entire machine, tool, or vehicle should be listed as the source, unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a non-transportation incident.

If a part is known to be **unattached and independent** of a machine, tool, or vehicle--or if it is probable that a machine, tool, or vehicle is not involved in the injury--then that specific part should be listed as the source.

If the material identified as the source of an injury is the **general floor surface in a building or on the ground**, then the appropriate structure or surface in division 6 (Structures and Surfaces) should be listed as the source.

If the material identified as the source of an injury is an **independent, unattached element**, then that specific element (part or material) should be listed as the source.

*Includes:* Building materials--solid elements; fasteners, connectors, ropes, ties; hoisting accessories; machine, tool, and electric parts; metal materials--nonstructural; tars, sealants, caulking, insulating material; tarps and sheeting--nonmetal; vehicle and mobile equipment parts.

*Excludes:* Chemicals and chemical products (0); paint, lacquer, shellac, varnish (076); containers (1); hoses (122); furniture and fixtures (2); lighting and plumbing fixtures (24); machinery (3); metallic minerals (54); nonmetallic minerals (55); structural elements (63); vehicles (8); apparel and textiles (92); paper, sheets (942).

**40 Parts and materials, unspecified****41\* Building materials--solid elements**

This major group classifies materials which are primarily used in the construction of buildings and other structures.

*Includes:* Bricks, blocks, structural stone; pipes, ducts, tubing; structural metal materials; tiles, shingles; wood, lumber; other building materials.

*Excludes:* Building systems (61); structural elements (63); doors (631); fences (632); gates (633); roof (634); skylights (636); walls (637); windows (638); structures (64); office, plant, and residential buildings (642); scaffolds, staging (646).

**410 Building materials, unspecified****411\* Bricks, blocks, structural stone**

This source group classifies bricks, blocks, and structural stone materials which are primarily used in the construction of buildings, surfaces, and other structures.

*Includes:* Bricks and pavers (ornamental, decorative paving blocks); concrete blocks, cinder blocks; structural stones or slabs.

*Excludes:* Metallic minerals (54); nonmetallic minerals (55); boulders (552); clay (553); rocks (555).

**4110 Bricks, blocks, structural stone, unspecified**

\* - Asterisks indicate division, major group, or group titles.

**4111 Bricks and pavers**  
*Ornamental, decorative paving blocks*

**4112 Concrete blocks, cinder blocks**

**4113 Structural stones or slabs, n.e.c.**  
*Cut marble splashblocks* *Preformed sidewalk slabs*  
*Marble or granite slabs*

**4119 Bricks, blocks, structural stone, n.e.c.**

**412\* Pipes, ducts, tubing**

This source group classifies pipes, ducts, and tubing which are primarily used in buildings and other structures which require water, gas, electricity, or ventilation. **Hoses and pressure lines are classified in major group 12 (Containers--pressurized).**

*Includes:* Concrete or clay pipes and conduits; ducts; metal pipe, tubing (including stove pipe, flu lining); pipe fittings; plastic or rubber pipe and tubing.

*Excludes:* Hoses (122); pressure lines, except hoses (124); flashing (4192); gutters, downspouts (4194); building systems (61).

**4120 Pipes, ducts, tubing, unspecified**  
**4121 Concrete or clay pipes and conduits**  
**4122 Ducts**  
**4123 Metal pipe, tubing**  
**4124 Pipe fittings**  
**4125 Plastic or rubber pipe and tubing**  
**4129 Pipes, ducts, tubing, n.e.c.**

**413\* Structural metal materials**

This source group classifies structural products made from metal. Structural metal materials that are permanent elements of buildings and other structures are classified in division 6 (Structures and Surfaces).

*Includes:* Angle irons; bars, rods, reinforcing bar (rebar); beams; grates; plates, metal panels; rails; sheet metal; steel channel; manhole covers.

*Excludes:* Flashing (4192); gutters, downspouts (4194); aluminum siding (4196); structural metal materials that are elements of buildings and other structures (6).

**4130 Structural metal materials, unspecified**  
**4131 Angle irons**  
**4132 Bars, rods, reinforcing bar (rebar)**  
**4133 Beams**  
**4134 Grates**  
**4135 Plates, metal panels**  
**4136 Rails**  
**4137 Sheet metal**  
**4139 Structural metal materials, n.e.c.**  
*Steel channel* *Manhole covers*

**414\* Tiles, shingles**

This source group classifies roof, ceiling, and floor tiles, as well as roof shingles. If an injury is produced by a bundle of shingles or tiles, then source group 131 (Bundles, bales) should be listed as the source. If the tiles or shingles are part of a working (roof) surface, then a code in division 6 (Structures and Surfaces) should be selected as the source.

\* - Asterisks indicate division, major group, or group titles.

*Includes:* Ceiling tiles; drain, roof, and multipurpose ceramic or stone tiles; roof shingles; vinyl floor tiles.

*Excludes:* Tiles and shingles as part of a bundle (131); tiles and shingles as part of a working (roof) surface (6).

**4140 Tiles, shingles, unspecified**

**4141 Ceiling tiles**

**4142 Ceramic or stone tiles--drain, roof, multipurpose**

**4143 Roof shingles, except tile**

**4144 Vinyl floor tiles**

**4149 Tiles, shingles, n.e.c.**

**415\* Wood, lumber**

This source group classifies individual pieces of wood and lumber materials that are primarily used in the construction of buildings and other structures. Dimensional lumber or plywood sheets that are part of a banded bundle should be classified in source group 131 (Bundles, bales) as a variable restraint container. Plywood, paneling, and lumber that are known to be parts of buildings or other structures should be classified in division 6 (Structures and Surfaces).

*Includes:* Dimensional lumber (2x4's, etc.); plywood, wood paneling, particle board; wood pieces, trim pieces.

*Excludes:* Boards and sheets as part of a bundle (131); wood shingles (4143); boards and wood sheets as part of a building or other structure (6).

**4150 Wood, lumber, unspecified**

**4151 Dimensional lumber: 2x4, 2x3, etc.**

**4152 Plywood, wood paneling; particle, chip, flake board**

**4153 Wood pieces, trim pieces, n.e.c.**

**4159 Wood, lumber, n.e.c.**

**419\* Other building materials--solid elements**

This source group classifies other building materials that are primarily used in protecting, sealing, and finishing building interiors and exteriors.

*Includes:* Fencing and screening material, n.e.c.; flashing; glass, window panes; gutters, downspouts; sheet flooring; aluminum, vinyl siding; structural hardware, n.e.c.; wallboard, drywall.

*Excludes:* Paint, lacquer, shellac, varnish (076); rolls of fencing, screening (133); bricks, blocks, structural stone (411); pipes, ducts, tubing (412); structural metal materials (413); tiles, shingles (414); plywood, wood paneling, particle board (4152); tars, sealants, caulking, insulating material (46); windshields, vehicle windows (484).

**4190 Other building materials--solid elements, unspecified**

**4191 Fencing and screening material, n.e.c.**

**4192 Flashing**

**4193 Glass, window panes**

**4194 Gutters, downspouts**

**4195 Sheet flooring**

**4196 Siding--aluminum, vinyl**

**4197 Structural hardware, n.e.c.**

*Door knobs*

*Hinges*

*Latches*

*Locks*

**4198 Wallboard, drywall**

**4199 Other building materials--solid elements, n.e.c.**

**42\* Fasteners, connectors, ropes, ties**

\* - Asterisks indicate division, major group, or group titles.

This major group classifies fasteners, connectors, and binders that are primarily used to hold materials together.

*Includes:* Fasteners; ropes, ties; valves, nozzles; cable

*Excludes:* Variable restraint containers (13); electrical wire (4411); cable accompanied by winches (4423); handtool clamps (7142).

#### **420 Fasteners, connectors, ropes, ties, unspecified**

##### **421\* Fasteners**

This source group classifies any of various devices that are used to attach, connect, or secure things together.

*Includes:* Clamps, couplings; nails, brads, tacks; nuts, bolts, washers; rivets; screws; spikes; staples; tape.

*Excludes:* Handtool clamps (7142); nonpowered staplers (7195); powered staplers (7295).

##### **4210 Fasteners, unspecified**

##### **4211 Clamps, couplings**

##### **4212 Nails, brads, tacks**

##### **4213 Nuts, bolts, washers**

##### **4214 Rivets**

##### **4215 Screws**

##### **4216 Spikes**

##### **4217 Staples**

##### **4219 Fasteners, n.e.c.**

*Tape*

##### **422\* Ropes, ties, chains**

This source group classifies ropes and ties of any composition that are used primarily for binding things together. Similar to other machine and equipment parts, items in this category are coded as the source only if they are separate or independent of the "whole" or if the event is overexertion.

*Includes:* Bands; bungee cords (including bungee jumping cords); chains, n.e.c.; rope, twine, string; strapping; nonelectrical wire; cable.

*Excludes:* Fasteners (421); electrical wire or cable (4411); cable accompanied by winches (4423); tape (4219).

##### **4220 Ropes, ties, chains, unspecified**

##### **4221 Bands**

##### **4222 Bungee cords**

##### **4223 Chains, n.e.c.**

##### **4224 Rope, twine, string**

##### **4225 Strapping**

##### **4226 Wire--nonelectrical**

##### **4229 Ropes, ties, chains, n.e.c.**

*Cable*

##### **423 Valves, nozzles**

This source group classifies valves which are primarily used for connecting pipe together, or are used to control the flow of liquids and gases through a system.

*Includes:* Valves, nozzles.

*Excludes:* Hoses (122); pressure lines (124); pipes (412).

##### **429 Fasteners, connectors, ropes, ties, n.e.c.**

\* - Asterisks indicate division, major group, or group titles.

**43\* Hoisting accessories**

This major group classifies unattached hoisting accessories which are primarily used in conjunction with the hoisting machinery classified in source group 344 (Overhead hoists). These are primarily hoisting machinery attachments designed to grip, pick-up, or carry heavy materials. If the accessory is known to be attached to a hoisting machine, the entire machine should be listed as the source.

*Includes:* Fixtures, load indicators; hooks, shackles, magnets, clamshells, orange peels, grapples, anchors, cant hooks, grapnels, grappling irons/hooks; slings.

*Excludes:* Logging skidders, logging cable and grapples (3238); pulleys, sheaves, block and tackle, cable, winches (4423).

- 430 Hoisting accessories, unspecified**
- 431 Fixtures, load indicators**
- 432 Hooks, shackles, magnets, clamshells**
- 433 Slings**
- 439 Hoisting accessories, n.e.c.**

**44\* Machine, tool, and electric parts**

This major group classifies **unattached** machine, tool, electric, and vehicle parts and materials. In general, if a part classified in this group is **attached** to a machine, tool, or vehicle at the time of injury then that entire machine, tool, or vehicle should be listed as the source, unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a non-transportation incident.

*Includes:* Electric parts; machine and appliance parts; tool parts, accessories.

*Excludes:* Machinery (3); handtools (7); vehicles (8).

**440 Machine, tool, and electric parts, unspecified****441\* Electric parts**

This source group classifies unattached electric parts which primarily carry or generate electrical currents for machinery, vehicles, and other sources which require electrical systems. Power lines, transformers, and convertors are coded 4415 regardless of whether they are attached to the electrical grid or separate. Similar, electrical and extension cords are coded 4419 regardless of whether they are attached to a machine or appliance.

*Includes:* Electrical wiring or cable; generators; magnetic and electrolytic apparatus; motors; power lines, transformers, convertors; relays, rheostats, starters, controls; switchboards, switches, fuses, fused cutouts; batteries (except vehicle), alternators, armatures, coils, distributors, spark plugs.

*Excludes:* Battery acid (0134); lamps, light bulbs (241); nonvehicle fans (3312); nonelectrical wiring (4226); nonvehicle engines, turbines (4424); vehicle engines (482); vehicle batteries (4821); vehicle fans (4824); electrical towers (647).

- 4410 Electric parts, unspecified**
- 4411 Electrical wiring**
- 4412 Generators**
- 4413 Magnetic and electrolytic apparatus**
- 4414 Motors**
- 4415 Power lines, transformers, convertors**
- 4416 Relays, rheostats, starters, controls**
- 4417 Switchboards, switches, fuses**

\* - Asterisks indicate division, major group, or group titles.



**4419 Electric parts, n.e.c.**  
*Electrical cords*

*Extension cords*

**442\* Machine and appliance parts**

This source group classifies unattached parts which primarily function as the operating parts of machines and appliances. Included here is mechanical power transmission equipment for industrial machinery and aircraft. Vehicle parts and engines are classified in major group 48 (Vehicle and mobile equipment parts).

Electrical equipment for automobiles (except batteries) and other internal combustion engines, such as generators and alternators, is included in source group 441 (Electric parts).

This source group also includes machine parts which are used for molding, stamping, cutting, or shaping. Some items included here are punches, forming and stamping devices, dies, steel rule, diamond dies, and die-casting molds.

If a part is known or assumed to be **attached** to a machine when an injury occurs, then that entire machine should be listed as the source, unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a non-transportation incident.

If a part is known to be **unattached and independent** of a machine, or if it is probable that a machine is not involved, then that specific part should be selected as the source.

*Includes:* Dies, molds, patterns; chain, leather, fabric, and vee belt drives; drums, pulleys, sheaves (blocks), cable and winches; nonvehicle engines, turbines; friction clutches; gears; rollers.

*Excludes:* Roller conveyors (3412); molding machinery (353); hoisting accessories (43); vehicle engines (4823); cable not attached to winches (4229).

**4420 Machine and appliance parts, unspecified**

**4421 Dies, molds, patterns**

**4422 Drives--chain, leather, fabric, vee belt**

**4423 Drums, pulleys, sheaves**

*Block and tackle*

*Crown block*

*Traveling block*

*Winches and accompanying cable*

**4424 Engines, turbines, except vehicle**

**4425 Friction clutches**

**4426 Gears**

**4427 Rollers**

**4429 Machine and appliance parts, n.e.c.**

*Machine doors*

**443\* Tool parts, accessories**

This source group classifies unattached tool parts and accessories.

If a part is known to be **attached** to a tool or machine when an injury occurs, then the entire tool or machine should be listed as the source, unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a non-transportation incident.

If a part is known to be **unattached** and independent of a tool or machine, or if it is **unknown** whether a tool or machine is involved, then that specific part should be selected as the source.

*Includes:* Unattached drill bits; unattached saw blades.

\* - Asterisks indicate division, major group, or group titles.

*Excludes:* Machinery (3); stationary drills (3521); stationary sawing machinery (357); nonpowered cutting handtools (712); powered cutting handtools (722).

**4430** Tool parts, accessories, unspecified  
**4431** Drill bits--unattached  
**4432** Saw blades--unattached  
**4439** Tool parts, accessories, n.e.c.

**449** Machine, tool, and electric parts, n.e.c.

**45\*** Metal materials--nonstructural

This major group classifies nonstructural metal materials that are primarily formed to be further developed into structural metal products (e.g., reinforcing bar, sheet metal, but may also remain in a nonstructural condition as well (e.g., precious metal ingots, bars, etc.). Both hot and cooled slag are included in code 452.

*Includes:* Nonstructural metal sheets, ingots, bars; molten or hot metals, slag.

*Excludes:* Structural bars (4132); structural plates, panels (4135); structural sheet metal (4137);

**450** Metal materials--nonstructural, unspecified  
**451** Metal sheets, ingots, bars--nonstructural  
**452** Molten or hot metals, slag  
**459** Metal materials--nonstructural, n.e.c.

**46\*** Tars, sealants, caulking, insulating material

This major group classifies liquid and fiber materials which are primarily used to seal gaps or openings in roofs, walls, windows, and other fixtures, as well as provide insulation in buildings and other structures.

*Includes:* Asphalt, roofing tar; fiberglass insulation; foam caulking, foam insulation; joint compound, patching compounds; plastic, vinyl caulking; sealants, waterproofers, n.e.c.

*Excludes:* Adhesives (071); paint (0762); paint thinner (0772); caulking guns (7199).

**460** Tars, sealants, caulking, insulation, unspecified  
**461** Asphalt, roofing tar  
**462** Fiberglass insulation  
**463** Foam caulking, foam insulation  
**464** Joint compound, patching compounds  
**465** Plastic, vinyl caulking  
**466** Sealants, waterproofers, n.e.c.  
**469** Tars, sealants, caulking, insulation, n.e.c.

**47\*** Tarps and sheeting--nonmetal

This source group classifies nonmetal plastic, felt, and other fabric tarps and sheeting primarily used to protect the interiors and surfaces of structural elements such as roofs, ceilings, walls, and floors.

*Includes:* Roofing paper, roofing felt; plastic tarps, ground cloths, fabric sheeting.

*Excludes:* Rolls of roofing paper (133); tars, sealants, caulking, insulation (46).

**470** Tarps and sheeting, nonmetal, unspecified  
**471** Roofing paper, roofing felt  
**472** Tarps; plastic, or fabric sheeting  
**479** Tarps and sheeting, nonmetal, n.e.c.

\* - Asterisks indicate division, major group, or group titles.

**48\* Vehicle and mobile equipment parts**

This source group classifies unattached parts which primarily function as the operating parts of vehicles and mobile equipment.

Electrical equipment for automobiles (except batteries) and other internal combustion engines, such as generators and alternators, is included in source group 441 (Electric parts).

Mechanical power transmission equipment (e.g., engines, gears) for industrial machinery and aircraft is classified in source group 442 (Machine and appliance parts).

If a part is known to be **attached** to a vehicle when an injury occurs, then the entire vehicle should be listed as the source, unless the event is overexertion or the injury was inflicted by an electrical cord, overhead powerline, or floor of a vehicle in a non-transportation incident.

If a part is known to be **unattached** and independent of a vehicle, or if it is **unknown** whether a vehicle is involved (for example, during vehicle assembly), then that specific part should be selected as the source.

*Includes:* Tires, inner tubes, wheels; engine parts and accessories; trailers; vehicle windshields, vehicle windows.

*Excludes:* Headlights, lightbulbs (2412); nonvehicle glass (4193); electric parts (441); nonvehicle engines (4424); nonvehicle windows (638); vehicles (8); trailer trucks (8254).

**480 Vehicle and mobile equipment parts, unspecified****481\* Tires, inner tubes, wheels**

This source group classifies unattached tires, inner tubes, and wheels used mostly in conjunction with vehicles and mobile equipment.

*Includes:* Bike tires; tire inner tubes; all other tires (except bike); wheels, tire rims.

*Excludes:* Pulleys (4423); vehicles (8).

**4810 Tires, inner tubes, wheels, unspecified****4811 Bike tires****4812 Tire inner tubes****4813 Tires, except bike****4814 Wheels, tire rims****4819 Tires, inner tubes, wheels, n.e.c.****482\* Engine parts and accessories**

This source group classifies unattached vehicle engine parts and accessories which are not connected to a vehicle when an injury occurs.

*Includes:* Battery; belts, hoses; engine block; fan; muffler, exhaust; radiator; transmission.

*Excludes:* Garden hoses (122); house fans (3312); nonvehicle batteries (4419); nonvehicle transmission systems (442); vehicles (8).

**4820 Engine parts and accessories, unspecified****4821 Battery****4822 Belts, hoses****4823 Engine block****4824 Fan****4825 Muffler, exhaust****4826 Radiator****4827 Transmission****4829 Engine parts and accessories, n.e.c.**

\* - Asterisks indicate division, major group, or group titles.

**483 Trailers**

This source group classifies trailers which are not connected to a vehicle when an injury occurs.

*Includes:* Unattached car and truck trailers.

*Excludes:* Semitrailers, trailer trucks (8254).

**484 Windshields, vehicle windows**

This source group classifies vehicle windshields and windows that are not installed on a vehicle when an injury occurs.

*Includes:* Unattached vehicle windshields, windows.

*Excludes:* Nonvehicle glass (4193); nonvehicle windows (638).

**489 Vehicle and mobile equipment parts, n.e.c.**

*Airbags*

*Doors*

**49 Parts and materials, n.e.c.**

This major group classifies all parts and materials that are not elsewhere classified.

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\* - Asterisks indicate division, major group, or group titles.

**5\* PERSONS, PLANTS, ANIMALS, AND MINERALS**

This division classifies living organisms (including infectious and parasitic agents) and their products, as well as raw, metallic and nonmetallic minerals. Work-related HIV infections are classified in source group 533 (Viruses).

*Includes:* Animals and animal products; fresh or processed food products; infectious and parasitic agents; metallic minerals; nonmetallic minerals (except fuel); person--injured or ill worker; person--other than injured or ill worker; unprocessed plants, trees, vegetation.

*Excludes:* Chemicals (0); metallic particulates, trace elements, dusts, powders, fumes (05); structural and nonstructural metal materials (4); lumber (415).

**51\* Animals and animal products**

This major group classifies living animals (except humans) as well as animal products (except food).

*Includes:* Nonfood animal products; birds and fowl; fish, shellfish; insects, arachnids (spiders, ticks, scorpions); mammals (except humans); reptiles, snakes; animal waste products, including manure.

*Excludes:* Food products (52); humans, persons (56 and 57).

**510 Animals, unspecified****511\* Animal products--nonfood**

This source group classifies raw or unprocessed nonfood animal products.

*Includes:* Bones (including fossilized bones), shells; feathers; fur, wool; leather hides.

*Excludes:* Bone meal, ground oyster shells, dried blood, fertilizer, plant food (061); food products (52); apparel and textiles (92).

**5110 Animal products--nonfood, unspecified****5111 Bones, shells****5112 Feathers****5113 Fur, wool****5114 Hides--leather****5119 Animal products--nonfood, n.e.c.****512\* Birds and fowl**

This source group classifies birds and fowl in a living or natural, unprocessed condition.

*Includes:* Birds (except fowl); chicken; ducks; geese; turkey.

*Excludes:* Processed poultry (526).

**5120 Birds and fowl, unspecified****5121 Birds, except fowl****5122 Chicken****5123 Ducks****5124 Geese****5125 Turkey****5129 Birds and fowl, n.e.c.****513 Fish, shellfish****514 Insects, arachnids***Bees**Scorpions**Spiders**Ticks**Wasps*

\* - Asterisks indicate division, major group, or group titles.

**515\* Mammals, except humans**

This source group classifies all mammals (except humans) in a living or natural, unprocessed condition. Persons are classified in major groups 56 (Person--injured or ill worker) and 57 (Person--other than injured or ill worker).

*Includes:* Cats; cattle; dogs; horses; rats, rodents; sheep; swine.

*Excludes:* Nonfood animal products (511); fresh or processed food products (52).

**5150 Mammals, unspecified****5151 Cats****5152 Cattle****5153 Dogs****5154 Horses****5155 Rats, rodents****5156 Sheep****5157 Swine****5159 Mammals, n.e.c.****516 Reptiles, snakes****517 Animal waste products, including manure****519 Animals, n.e.c.****52\* Food products--fresh or processed**

This major group classifies fresh or processed foods obtained from animals or plants.

*Includes:* Bakery products, candy, confections, snack foods; beverages, n.e.c.; dairy products; flavorings; fruits, nuts, vegetables; grains, grain mill products, grain dust; meat, poultry; seafood; multiple foods or groceries; fats, oils; sugar, cocoa, chocolate.

*Excludes:* Animals and animal products (51); cash grain crops (581); field crops (582).

**520 Food products, unspecified****521 Bakery products, candy, confections, snack foods****522 Beverages, n.e.c.****523 Dairy products****524 Fruits, nuts, vegetables****525 Grains, grain mill products****526 Meat, poultry****527 Seafood****528 Multiple foods or groceries****529\* Other food products--fresh or processed****5291 Fats, oils****5292 Sugar, cocoa, chocolate****5299 Other food products--fresh or processed, n.e.c.****53\* Infectious and parasitic agents**

This major group classifies organic (living) infectious and parasitic agents including bacteria, fungi (including mold and mildew), and viruses, including work-related cases of HIV infections.

*Includes:* Bacteria; fungi; viruses (including HIV cases).

**530 Infectious and parasitic agents, unspecified****531 Bacteria****532 Fungi****533 Viruses****539 Infectious and parasitic agents, n.e.c.**

\* - Asterisks indicate division, major group, or group titles.

**54\* Metallic minerals**

This major group classifies raw, natural metallic minerals (or combination of minerals) from which a metal (or metals), or radiation can be extracted.

*Includes:* Nonradiating metal ores; natural and processed radiating metals.

*Excludes:* Metallic particulates, trace elements, dusts, powders, fumes (05); structural and nonstructural metal materials (4); nonmetallic minerals, except fuel (55).

**540 Metallic minerals, unspecified****541 Metal ores--nonradiating**

This source group classifies nonradiating metal ores.

*Includes:* Copper ore; gold, platinum, silver ore; iron ore; lead ore; zinc ore; bronze ore; mercury ore; nickel ore; tin ore.

*Excludes:* Molten metal (452).

**542\* Radiating metals, natural and processed**

This source group includes substances which emit energy in the form of rays of light, heat, alpha, beta, gamma, etc. This code would be used only in cases of radiation injuries. Reactor fuel or waste can be either uranium or plutonium and, therefore, should be classified in 5420 (unspecified) unless the type is specified.

*Includes:* Plutonium; radium; uranium.

*Excludes:* Nonradiating metal ores (541).

**5420 Radiating metals, natural and processed, unspecified****5421 Plutonium****5422 Radium****5423 Uranium****5429 Radiating metals, natural and processed, n.e.c.****549 Metallic minerals, n.e.c.****55\* Nonmetallic minerals, except fuel**

This major group classifies natural and processed products of mining, excavating, landslides, etc., except fuel.

*Includes:* Asbestos; boulders; natural and processed clay; dirt, earth; rocks, crushed stone; sand, gravel; silica.

*Excludes:* Dry cement, mortar mix (0211); fuel (08); ditches, channels, trenches, excavations (627); mines, caves, tunnels (644); dust (95).

**550 Nonmetallic minerals, except fuel, unspecified****551 Asbestos**

This source group classifies asbestos minerals: rock-forming minerals that are separated into long, thread-like fibers.

**552 Boulders**

This source group classifies large masses of stone detached from the mass as they are primarily found in natural settings.

\* - Asterisks indicate division, major group, or group titles.

**553 Clay--natural and processed**

This source group classifies all types of natural and processed clay: a fine-grained earth used in the manufacture of bricks, pipes, pottery, and other ceramics.

**554 Dirt, earth**

This source group classifies all types of dirt, soil, and earth not specified elsewhere.

**555 Rocks, crushed stone**

This source group classifies hard, nonmetallic mineral matter not specified elsewhere as may be found in quarries or in natural settings. Gravel is classified in 556 (Sand, gravel).

**556 Sand, gravel**

This group includes all types of sand and gravel used for a variety of purposes.

**557 Silica**

This group classifies hard, glassy mineral (silica) found in a variety of forms such as quartz, sand, and opal.

**559 Nonmetallic minerals, except fuel, n.e.c.****56\* Person--injured or ill worker**

This major group classifies bodily conditions and self-induced bodily motion injuries.

*Includes:* Bodily conditions or injured, ill worker; bodily motion or position of injured, ill worker.

*Excludes:* Injuries or illnesses inflicted by bodily fluids or substances, or other persons (57).

**561 Bodily conditions of injured, ill worker**

This source group classifies physical, mental, or emotional conditions -- such as unexplained faintings, heart attacks not attributed to other sources, and work-related stress -- which result in nervous disorders, symptoms or illnesses.

**562 Bodily motion or position of injured, ill worker**

This source group classifies stress or strains induced by a free movement of the body or its parts, with no impact involved. This group is also used for coding awkward or sustained positions of the injured worker as well as the motion of the person for motion sickness cases. This code must be used when the Event or exposure is coded as bodily reaction (21), repetitive motion (23), or sustained viewing (24). Similarly, source code 562 requires an event coded in one of those categories or in bodily reaction and exertion, nec (29).

**569 Person--injured or ill worker, n.e.c.****57\* Person--other than injured or ill worker**

This major group classifies injuries or illnesses inflicted by family members; co-workers and former co-workers; patients; as well as persons unknown to the injured worker.

Friends of the injured or ill worker, including boyfriends and girlfriends, are coded 579. Relatives include current and former spouses as well as common law spouses. Codes 575 (robber) and 576 (student) are for use in the Census of Fatal Occupational Injuries program only.

*Includes:* Bodily fluids or substances of person (including blood, sweat, tears, saliva, urine, fecal matter); co-worker, former co-worker of injured or ill worker; health care patient or resident of health care facility; relative (including current and

\* - Asterisks indicate division, major group, or group titles.



former spouse and common law spouse) of injured or ill worker; robbers (including carjackers, thieves, muggers, shoplifters, etc); students .

- 570 **Person--other than injured or ill worker, unspecified**
- 571 **Bodily fluids or substances of person**
- 572 **Co-worker, former co-worker of injured or ill worker**
- 573 **Health care patient or resident of health care facility**
- 574 **Relative of injured or ill worker**
- 575 **Robber (CFOI only)**
- 576 **Student (CFOI only)**
- 579 **Person--other than injured or ill worker, n.e.c.**
  - Boyfriend*
  - Friend*
  - Girlfriend*
  - Robber (SOII only)*
  - Student (SOII only)*

**58\* Plants, trees, vegetation--not processed**

This major group classifies plants, trees, and vegetation in a natural or unprocessed condition. Source group 587 (Trees, logs), includes cut trees with or without limbs as well as tree branches. Thorns are coded according to the relevant plant. Pollen is coded 589.

*Includes:* Cash grain crops (including corn, rice, soybeans, wheat); field crops (including cotton, potatoes, sugarcane, tobacco); flowers; houseplants; poison ivy, oak, sumac; shrubs, grasses; trees, logs, branches.

*Excludes:* Lumber (415); processed wood pieces (4153); fresh or processed food products (52).

- 580 **Plants, trees, vegetation, unspecified**
- 581 **Cash grain crops**
- 582 **Field crops**
- 583 **Flowers**
- 584 **Houseplants**
- 585 **Poison ivy, oak, sumac**
- 586 **Shrubs, grasses**
- 587 **Trees, logs**
- 589 **Plants, trees, vegetation--not processed, n.e.c.**

**59 Persons, plants, animals, and minerals, n.e.c.**

This major group classifies plants, animals, and minerals not elsewhere classified.

\* - Asterisks indicate division, major group, or group titles.

**6\* STRUCTURES AND SURFACES**

This division classifies all types of structures and structural elements including building structures and systems, bridges, stadia, tunnels, towers, and dams as well as other structural elements. Also classified here are walking, working, and road surfaces. Structural elements, including doors, windows, roofs, and walls, are classified in major group 63 (Other structural elements).

If the material identified as the source of an injury is the **general floor surface** in a building or on the ground, then the appropriate structure or surface in this division should be selected as the source.

If the material identified as the source of an injury is an **independent, unattached element**, then that specific element (part or material) should be listed as the source. Structural elements such as prefabricated roof trusses and windows, structures in their own right, should be listed as the source regardless of whether they are independent or part of a building.

Any ladder that is a fixed or temporary part of any structure is classified in major group 74 (Ladders).

*Includes:* Building systems; floors, walkways, ground surfaces; other structural elements; structures.

*Excludes:* Bricks, blocks, structural stone (411); unattached structural metals (413); unattached building materials (419); ladders (74).

**60 Structures and surfaces, unspecified****61\* Building systems**

This major group classifies the mechanical systems in a building, including the climate control and plumbing systems. This category will primarily be used as a secondary source to classify building system complications which produce injuries or illnesses. For example, illnesses produced by foreign particles in the air may be the result of a poor ventilation (climate control) system; illnesses produced by contaminated drinking water may be the result of a poor plumbing system.

*Includes:* Climate control system; plumbing system.

*Excludes:* Fixtures (24); electric parts (441).

**610 Building system, unspecified****611 Climate control system****612 Plumbing system****619 Building system, n.e.c.****62\* Floors, walkways, ground surfaces**

This major group classifies walking, working, floor, and road surfaces. These surfaces can be temporary or permanent, indoors or outdoors, above or below ground, etc.

If the surface identified as the source of an injury is the **general floor surface** in a building or on the ground, **regardless of whether it is a permanent element** of a building, then the appropriate surface in this major group should be selected as the source.

*Includes:* Escalators; floors; ground; sidewalks, paths, outdoor walkways; stairs, steps; street, road; ditches, channels, trenches, excavations; piers, wharfs; ramps, runways, loading docks; moving walkways.

*Excludes:* Injuries where the floor, walkway, or ground surface is not the source of the injury.

**620 Floors, walkways, ground surfaces, unspecified****621 Escalators**

\* - Asterisks indicate division, major group, or group titles.

This source group classifies escalators mainly used as mechanical steps for the transportation of people from one level to another.

*Includes:* Escalators.

*Excludes:* Elevators (346); stairs, steps (625); moving walkways (6293).

## **622\* Floors**

This source group includes the floor surface of any structure, vehicle, or machine, and excludes outdoor ground surfaces (623), below ground surfaces (627), piers, wharfs (6291), ramps, runways, loading docks (6292), moving walkways (6293) and roofs (634). Vehicle floors should not be coded as the source for transportation accidents.

Note that roofs, even when used as working surfaces, are classified in source group 634 (Roof). Floor of building (6221) includes basement floors and floors at the bottom of an elevator shaft. Floor of elevator (6222) is used for the floor surface inside the elevator car.

*Includes:* Building floor (including basement) surfaces; elevator floor surfaces; mine floor surfaces; scaffold, staging, or temporary work platforms; vehicle floor surfaces.

*Excludes:* Outdoor ground surfaces (623); below ground surfaces such as ditches and trenches (627); piers, wharfs (6291); ramps, runways, loading docks (6292); moving walkways (6293); roofs (634).

**6220 Floor, unspecified**

**6221 Floor of building**

**6222 Floor of elevator**

**6223 Floor of mine**

**6224 Floor of scaffold, staging, or temporary work platform**

**6225 Floor of vehicle**

**6229 Floor, n.e.c.**

## **623 Ground**

This source group classifies any natural surface in the outdoors on which an employee is supported other than sidewalks, paths, and walkways.

*Includes:* Outdoor ground surfaces; athletic fields.

*Excludes:* Other dirt, earth (554); sidewalks, paths, walkways (624); street, road (626); ditches, channels, trenches, excavations (6271); parking lots (628).

## **624 Sidewalks, paths, outdoor walkways**

This source group consists of any outdoor sidewalk, path, or walkway when used as a surface on which a person is supported.

*Includes:* Sidewalks, paths, walkways, jogging trails, bicycle paths, and hiking trails.

*Excludes:* Ground (623).

## **625\* Stairs, steps**

This source group classifies any stairs or steps inside or outside, when used as a surface on which a person is supported, except ladders (74).

*Includes:* Indoor stairs, steps; outdoor stairs, steps; uncompleted stairs, such as stringers and risers.

*Excludes:* Escalators (621); ladders (74).

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\* - Asterisks indicate division, major group, or group titles.

- 6250 Stairs, steps, unspecified**
- 6251 Stairs, steps--indoors**
- 6252 Stairs, steps--outdoors**

## **626 Street, road**

This group includes any part of a public or private street or road that is used as a surface that supports people or vehicles.

*Includes:* Public and private streets, roads; driveways.

*Excludes:* Athletic fields (623); parking lots (628).

## **627\* Surfaces below ground level, n.e.c.**

This source group classifies outside surfaces (except floors) below ground level such as ditches, channels, trenches, and excavations. Code 6271 is generally used as the source for trench cave-ins.

*Includes:* Ditches, channels, trenches, excavations.

*Excludes:* Floors (622); basement floors (6221); ground surfaces (623); mines (6441); sewers, storm drains, and culverts (6443).

- 6270 Surfaces below ground level, unspecified**
- 6271 Ditches, channels, trenches, excavations**
- 6279 Surfaces below ground level, n.e.c.**

## **628 Parking lots**

This source group classifies parking lot surfaces of any composition including gravel, dirt, concrete, etc.

*Includes:* Parking lot surfaces; parking garage surfaces.

*Excludes:* Streets, roads, driveways (626).

## **629\* Other floors, walkways, ground surfaces**

This source group classifies other common surfaces including piers and wharfs; ramps, runways, and loading docks; and moving walkways.

*Includes:* Piers, wharfs; ramps, runways (including airport), loading docks; moving walkways.

*Excludes:* Floors (622); ground (623); sidewalks, paths, outdoor walkways (624); stairs, steps (625); street, road (626); below ground surfaces (627); parking lots (628).

- 6290 Other floors, walkways, ground surfaces, unspecified**
- 6291 Piers, wharfs**
- 6292 Ramps, runways, loading docks**
- 6293 Moving walkways**
- 6299 Floors, walkways, ground surfaces, n.e.c.**

## **63\* Other structural elements**

This group classifies the separate structural elements that are parts of buildings and other structures. Structural elements should be listed as the source of an injury regardless of whether they are independent or part of a building.

*Includes:* Doors and door frames; fences, fence panels; gates; roof; roof trusses; skylights; walls; windows.

\* - Asterisks indicate division, major group, or group titles.

*Excludes:* Unattached building materials (41); unattached bricks, blocks, structural stone (411); unattached structural metals (413); ladders (74).

**630 Other structural elements, unspecified**

**631 Doors**

**632 Fences, fence panels**

**633 Gates**

**634 Roof**

**635 Roof trusses**

**636 Skylights**

**637 Walls**

**638 Windows**

**639 Structural elements, n.e.c.**

*Bannister*

*Beams*

*Column*

*Girders*

*Handrail*

*Lolly column*

**64\* Structures**

This major group classifies any type of constructed structures (e.g., buildings, stadia, tunnels, pools, scaffolding, towers), including structures over land and water such as dams and bridges.

Specific structural surfaces (floors, stairs) and elements (window, door, roof) which produce an injury are classified in major groups 62 (Floors, walkways, ground surfaces), and 63 (Other structural elements).

*Includes:* Bridges, dams, locks; office, plant, and residential buildings; grandstands, stadia; mines, caves, tunnels; pools; scaffolds, staging; towers, poles; guardrails, road dividers, hydrants, wells.

*Excludes:* Floors, walkways, and ground surfaces (62); structural elements including doors, roofs, walls, windows, etc. (63); silos (118).

**640 Structures, unspecified**

**641 Bridges, dams, locks**

This source group classifies all types of structural bridges, dams, and locks including foot and swinging bridges over land or water. Bridge and overpass abutments are also classified here.

**642 Buildings--office, plant, residential**

This source group classifies office, plant, and residential buildings including factories, warehouses, sheds, barns, boat houses, apartments, skyscrapers, gas stations, schools, theaters, auditoriums, etc. Sports facilities are classified in 643 (Grandstands, stadia).

**643 Grandstands, stadia**

This source group classifies all grandstands, sports arenas, and stadia, including covered or enclosed facilities.

Scaffolds and staging are classified in source group 646 (Scaffolds, staging).

**644\* Mines, caves, tunnels**

This source group classifies mines (above and below surface), caves, sewers and storm drains, and tunnels (including subway, train, sewer, and pedestrian tunnels).

*Includes:* Mines, mine tunnels (6441); pedestrian tunnels (6442); sewers, manholes, storm drains, and culverts (6443); subway and train tunnels (6444).

*Excludes:* Ditches, channels, trenches, excavations (6271); bridges (641).

\* - Asterisks indicate division, major group, or group titles.

- 6440** Mines, caves, tunnels, unspecified
- 6441** Mines, mine tunnels
- 6442** Pedestrian tunnels
- 6443** Sewers, manholes, storm drains
- 6444** Subway and train tunnels
- 6449** Mines, caves, tunnels, n.e.c.

#### **645** Pools

This source group classifies above and below ground swimming pools.

#### **646\*** Scaffolds, staging

This source classifies all types of scaffolds and staging used inside or outside buildings, stadiums, or amphitheaters.

*Includes:* Improvised staging; self-supporting staging; staging supported by structure or other means (including catwalks); suspended staging.

*Excludes:* Floor surfaces of scaffolds, staging, or temporary work platforms (6224); aerial lifts and scissorlifts (346).

- 6460** Scaffolds--staging, unspecified
- 6461** Scaffolds--improvised staging
- 6462** Scaffolds--self-supporting staging
- 6463** Scaffolds--staging supported by structure or other means
- 6464** Scaffolds--suspended staging
- 6469** Scaffolds--staging, n.e.c.

#### **647** Towers, poles

This source group classifies all types of poles, towers, and antennae.

*Includes:* Fire and range towers; oil rigs and derricks used to support drilling machinery; telephone poles, power poles; radar, radio, and television antennas; satellite dishes.

*Excludes:* Floor surfaces (622); power and telephone lines (4415).

#### **648\*** Other structures

This source group classifies other structures not previously classified.

*Includes:* Guardrails, road dividers; fire, water hydrants; wells.

- 6480** Other structures, unspecified
- 6481** Guardrails, road dividers
- 6482** Hydrants
- 6483** Wells
- 6489** Structures, n.e.c.
  - Billboards*
  - Embankments*
  - Gazebos*
  - Signs*

#### **69** Structures and surfaces, n.e.c.

This major group classifies structures and surfaces not elsewhere classified.

\* - Asterisks indicate division, major group, or group titles.

**7\* TOOLS, INSTRUMENTS, AND EQUIPMENT**

This division classifies handtools (nonpowered; powered; power not determined), ladders (fixed; movable), equipment (photographic; protective; recreation, athletic), and instruments (medical and surgical). Other tools and instruments such as clocks, eating and cooking utensils, firearms, other health care and orthopedic equipment, musical instruments, sewing notions, wheelchairs, and writing supplies are also included in this division.

If a part that produces an injury is **attached** to a tool (e.g., a saw blade or drill bit) then the entire tool should be listed as the source, unless the injury was inflicted by the electrical cord.

If a part is known to be **unattached and independent** of a tool--or if it is probable that a tool is not involved in the injury--then that specific part should be listed as the source. Unattached drill bits and saw blades are classified in source group 443 (Tool parts, accessories).

Certain handtools are manufactured in both powered and nonpowered varieties. If it cannot be determined whether a handtool is powered or nonpowered, it should be classified in major group 73 (Handtools--power not determined).

*Includes:* Nonpowered handtools; powered handtools; handtools--power not determined; ladders; medical and surgical instruments; photographic equipment; protective equipment (except clothing); recreation and athletic equipment; clocks; cooking and eating utensils (except knives); firearms; health care and orthopedic equipment, n.e.c.; musical instruments; sewing notions, n.e.c.; wheelchairs; writing, drawing, and art supplies.

*Excludes:* Containers (1); furniture and fixtures (2); tool chests (212); machinery (3); mechanical jacks (3472); parts and materials (4); hoisting accessories (43); machine, tool, and electric parts (44); tool parts, accessories (443); tarps (472).

**70 Tools, instruments, and equipment, unspecified****71\* Handtools--nonpowered**

This major group classifies all nonpowered handtools which are hand-held and operated. Handtools in this major group are not powered by electricity, fuel (gasoline, coal), air, steam, water, or gunpowder. Nonpowered handtools are classified according to their common functions at the source group level (e.g., boring, cutting, digging, gripping, etc.).

Unattached drill bits and saw blades are classified in source group 443 (Tool parts, accessories).

Certain handtools are manufactured in both powered and nonpowered varieties. If it cannot be determined whether a handtool is powered or nonpowered, it should be classified in major group 73 (Handtools--power not determined).

*Includes:* The following types of nonpowered handtools: boring handtools; cutting handtools; digging handtools; gripping handtools; measuring handtools; striking and nailing handtools; surfacing handtools; turning handtools; cleaning handtools; crowbars; pitchforks; rakes; stapling tools.

*Excludes:* Workbenches, worktables (232); hoisting accessories (43); metal fasteners such as nails, screws, nuts, and bolts (421); unattached drill bits and saw blades (443); powered handtools (72); handtools--power undetermined (73); carts and wheelbarrows (86).

**710 Handtools--nonpowered, unspecified****711\* Boring handtools--nonpowered**

This source group classifies nonpowered handtools which are commonly used to make holes using an attached revolving bit.

*Includes:* Augers; braces; drills.

*Excludes:* Unattached drill bits (4431); boring and drilling machinery (352); upright drill presses (3521); powered boring handtools (721).

\* - Asterisks indicate division, major group, or group titles.

**7110 Boring handtools--nonpowered, unspecified****7111 Augers**

<i>Augers</i>	<i>Corkscrews</i>
<i>Bores</i>	<i>Counterbores</i>
<i>Breast augers</i>	<i>Wimbles</i>

**7112 Braces**

<i>Bit braces</i>	<i>Braces</i>
<i>Brace and bits</i>	<i>Joist braces</i>

**7113 Drills**

<i>Breast drills</i>	<i>Gimlets</i>
<i>Hand drills</i>	<i>Pin vises</i>
<i>Push drills</i>	<i>Reamers</i>
<i>Ratchet drills</i>	

**7119 Boring handtools--nonpowered, n.e.c.**

<i>Awls</i>	<i>Bradawls</i>
<i>Bodkins (make holes in cloth)</i>	

**712\* Cutting handtools--nonpowered**

This source group classifies sharp-edged handtools which are commonly used to penetrate and separate objects, fabrics, etc.

*Includes:* Axes, hatchets; bolt cutters; chisels; knives; saws; scissors, snips, shears.

*Excludes:* Sawing machinery (357); unattached saw blades (4432); Spokeshaves, shavehooks (7172); putty knives (7179); powered cutting handtools (722); scalpels and surgical knives (752).

**7120 Cutting handtools--nonpowered, unspecified****7121 Axes, hatchets**

<i>Adzes</i>	<i>Froes</i>
<i>Axes</i>	<i>Grub axes</i>
<i>Bark spuds</i>	<i>Halberds</i>
<i>Battle-axes</i>	<i>Hatchets</i>
<i>Broadaxes</i>	<i>Poleaxes</i>
<i>Broad hatchets</i>	<i>Tomahawks</i>
<i>Celts (stone axe)</i>	

**7122 Bolt cutters**

<i>Bolt cutters</i>	<i>Pliers--cutting</i>
<i>Chain cutters</i>	<i>Wire cutters</i>
<i>Lock cutters</i>	

**7123 Chisels**

<i>Chisels--bench</i>	<i>Chisels--mortise</i>
<i>Chisels--cold</i>	<i>Chisels--paring</i>
<i>Chisels--construction</i>	<i>Chisels--socket</i>
<i>Chisels--corner</i>	<i>Chisels--steel</i>
<i>Chisels--deep-mortise</i>	<i>Chisels--wood</i>
<i>Chisels--dog leg</i>	<i>Socket slicks</i>
<i>Chisels--dovetail</i>	

\* - Asterisks indicate division, major group, or group titles.



**7124 Knives**

<i>Bayonets</i>	<i>Mat cutters</i>
<i>Box cutters</i>	<i>Palette knives</i>
<i>Bushwhackers</i>	<i>Pocket knives</i>
<i>Butcher knives</i>	<i>Potato Peelers</i>
<i>Carving knives</i>	<i>Pushknives</i>
<i>Cleavers</i>	<i>Scrapers(used with lathes)</i>
<i>Daggers</i>	<i>Scythes</i>
<i>Detail knives</i>	<i>Shaping knives</i>
<i>Dowel makers (used with lathes)</i>	<i>Shavers</i>
<i>Drawknives</i>	<i>Sickles</i>
<i>Flails--hand-threshing</i>	<i>Spears</i>
<i>Gouges</i>	<i>Steak knives</i>
<i>Groovers</i>	<i>Stiletos</i>
<i>Hacks</i>	<i>Switchblades</i>
<i>Hunting knives</i>	<i>Swords</i>
<i>Inshavers</i>	<i>Table knives</i>
<i>Knife Blades</i>	<i>Whittling knives</i>
<i>Lances</i>	<i>Veiners</i>
<i>Linoleum knives</i>	<i>Woodcarving knives</i>
<i>Machetes</i>	<i>Woodturning tools(used with lathes)</i>
<i>Marking knives</i>	<i>Utility knives</i>

**7125 Saws**

<i>Backsaws</i>	<i>Hand saws</i>
<i>Bow saws</i>	<i>Ryoba saws</i>
<i>Coping saws</i>	<i>Scroll saws</i>
<i>Cross-cut saws</i>	<i>Turning saws</i>
<i>Dozuki saws</i>	<i>Veneer saws</i>
<i>Fret saws</i>	

**7126 Scissors, snips, shears**

<i>Clippers--grass</i>	<i>Shears--hedge</i>
<i>Scissors--hand</i>	<i>Shears--pruning</i>
<i>Scissors--barber's</i>	<i>Snips--tin</i>
<i>Scissors--school</i>	<i>Trimmers--hedge</i>
<i>Scissors--tailor's</i>	

**7129 Cutting handtools--nonpowered, n.e.c.**

<i>Can openers--hand-operated</i>	<i>Paper cutters</i>
<i>Chasers (cut screw threads)</i>	<i>Paper-hole punchers</i>
<i>Glass cutters</i>	<i>Razorblades</i>
<i>Lawn edgers</i>	<i>Razors</i>
<i>Letter openers</i>	<i>Wedges</i>
<i>Nail clippers</i>	

**713\* Digging handtools--nonpowered**

This source group classifies nonpowered handtools which are commonly used for turning up, loosening, or removing earth.

*Includes:* Hoes; picks; shovels; trowels; post hole diggers.

*Excludes:* Excavating machinery (321); pitchforks (7193); rakes (7194).

**7130 Digging handtools--nonpowered, unspecified****7131 Hoes**

<i>Hoes--garden</i>	<i>Hoes--masons'</i>
<i>Hoes--grub</i>	<i>Hoes--scuffle</i>

**7132 Picks**

<i>Pick-axes</i>	<i>Mattocks(combination adz, pick, and axe)</i>
<i>Picks--ice</i>	

\* - Asterisks indicate division, major group, or group titles.

**7133 Shovels***Shovels--snow**Spades***7134 Trowels***Scoops--hand  
Spuds (combination  
trowel and chisel)**Trowels--cement  
Trowels--garden***7139 Digging handtools--nonpowered, n.e.c.***Dibbles (make seed  
holes in garden)**Post hole diggers***714\* Gripping handtools--nonpowered**

This source group classifies nonpowered handtools which are commonly used for clutching, squeezing, or gripping objects.

*Includes:* Pliers, tongs; vises, clamps; gear pullers.

*Excludes:* Clamps used as fasteners (4211); hooks (bush, grass, baling, and husking), grappling irons/hooks, anchors, cant hooks (432); peavies (7199); medical forceps (759).

**7140 Gripping handtools--nonpowered, unspecified****7141 Pliers, tongs***Forceps--excluding medical  
Nippers  
Pincers  
Pliers**Tweezers  
Tongs--Ice  
Tongs--Oyster  
Vise-Grips***7142 Vises, clamps***Bench Dogs  
Bench Screws  
Clamps--band  
Clamps--bar  
Clamps--cam  
Clamps--edging  
Clamps--hand  
Clamps--pipe**Clamps--spreader  
Clamps--spring  
Clamps--toggle  
Handscrews  
Vises--bench  
Vises--front  
Vises--miter***7149 Gripping handtools--nonpowered, n.e.c.***Nutcrackers**Pullers--wheel, gear, bearing***715\* Measuring handtools--nonpowered**

This source group classifies nonpowered handtools which are commonly used to ascertain measurements.

*Includes:* Calipers, micrometers; dividers; gauges; levels; plumb bobs; rulers, tape measures; squares; scales.

*Excludes:* Diagnostic machinery (393).

**7150 Measuring handtools--nonpowered, unspecified****7151 Calipers, micrometers***Calipers--dial  
Calipers--inside  
Calipers--micrometer  
Calipers--outside**Calipers--vernier  
Calipers--yankee  
Micrometers***7152 Dividers***Dividers**Trammel heads*

\* - Asterisks indicate division, major group, or group titles.

<b>7153</b>	<b>Gauges</b>	<i>Center finders</i> <i>Gauges--dovetail</i> <i>Gauges--marking</i>	<i>Gauges--multi</i> <i>Gauges--profile</i> <i>Gauges--scoring</i>
<b>7154</b>	<b>Levels</b>	<i>Levels</i>	<i>Spirit levels</i>
<b>7155</b>	<b>Plumb bobs</b>	<i>Plumbs</i>	<i>Plumb bobs</i>
<b>7156</b>	<b>Rulers, tape measures</b>	<i>Angle finders</i> <i>Metersticks</i> <i>Protractors</i> <i>Rulers</i> <i>Rules--bench</i> <i>Rules--centering</i> <i>Rules--foot</i> <i>Rules--parallel</i> <i>Rules--pocket</i>	<i>Rules--shop</i> <i>Rules--steel</i> <i>Size sticks</i> <i>Straight edges</i> <i>Tape lines</i> <i>Tape measures</i> <i>Triangles</i> <i>Yardsticks</i>
<b>7157</b>	<b>Squares</b>	<i>Bevels</i> <i>Combination builders tools</i> <i>Squares</i> <i>Squares--combination</i> <i>Squares--engineers</i>	<i>Squares--framing</i> <i>Squares--speed</i> <i>T squares</i> <i>Try squares</i>
<b>7159</b>	<b>Measuring handtools--nonpowered, n.e.c.</b>	<i>Balances</i> <i>Compasses--magnetic</i> <i>Compasses--measuring</i> <i>Pantographs</i>	<i>Sextants</i> <i>Scales</i> <i>Scales--bathroom</i>
<b>716*</b>	<b>Striking and nailing handtools--nonpowered</b>	<p>This source group classifies nonpowered handtools which are commonly used for delivering blows or strokes, or for nailing.</p> <p><i>Includes:</i> Hammers; mallets; punches, counterpunches, countersinks; sledges.</p> <p><i>Excludes:</i> Nonpowered staplers (7195); powered striking and nailing handtools (723); powered nail guns (7291).</p>	
<b>7160</b>	<b>Striking handtools--nonpowered, unspecified</b>		
<b>7161</b>	<b>Hammers</b>	<i>Hammers--ball peen</i> <i>Hammers--cabinetmakers</i> <i>Hammers--claw</i> <i>Hammers--framers</i>	<i>Hammers--meat</i> <i>Hammers--tack</i> <i>Mauls</i>
<b>7162</b>	<b>Mallets</b>	<i>Gavels</i> <i>Mallets--beechwood</i> <i>Mallets--carver's</i> <i>Mallets--cocobolo</i>	<i>Mallets--printers'</i> <i>Mallets--rawhide</i> <i>Mallets--rubber</i>
<b>7163</b>	<b>Punches, counterpunches, countersinks</b>	<i>Counterpunches</i> <i>Countersinks</i> <i>Punches</i>	<i>Punches--belt</i> <i>Punches--center</i>

\* - Asterisks indicate division, major group, or group titles.

**7164 Sledges***Hammers--sledge***7169 Striking handtools--nonpowered, n.e.c.***Batons--police**Nightsticks**Beetles**Numchuks**Billy clubs**Staffs**Blackjacks**Staves**Bludgeons**Tampers**Clubs***717\* Surfacing handtools--nonpowered**

This source group classifies nonpowered handtools which are commonly used to plane, shape, or make smooth surfaces.

*Includes:* Files; planes; sanders; sharpening stones and wheels.

*Excludes:* Planing machinery (352); grinding, polishing machinery (354); drawknives, gouges and groovers (woodcarving chisels), inshavers, veiners, and pushknives (7124).

**7170 Surfacing handtools--nonpowered, unspecified****7171 Files***Emery boards**Files--wood**Files--bastard**Rasps--cabinet**Files--cabinet**Rasps--keyway**Files--detail**Rasps--needle**Files--diamond**Rasps--round**Files--nail**Rasps--sculptor's**Files--needle**Rifflers**Files--round***7172 Planes***Cornering tools**Planes--jointer**Planes--bench**Planes--rabbet**Planes--block**Planes--router**Planes--bullnose**Planes--scraping**Planes--butt Mortise**Planes--scrub**Planes--combination**Planes--smoothing**Planes--compass**Planes--trimming**Planes--fore**Scrapers--cabinet**Planes--hollowing**Shavehooks**Planes--jack**Spokeshaves***7173 Sanders***Abrasive pads**Sanding sticks**Hand sanders**Sandpaper**Sanding grips***7174 Sharpening stones and wheels***Corundum stone**Pumice stone**Emery wheels**Slipstones**Honing stones**Water stones**Multi-stones**Whetstone**Oilstone***7179 Surfacing handtools--nonpowered, n.e.c.***Bench strops**Scouring pads**Paint scrapers**Sharpening straps**Putty knives**Slicks***718\* Turning handtools--nonpowered**

\* - Asterisks indicate division, major group, or group titles.

This source group classifies nonpowered handtools which are commonly used to revolve or rotate screws, nuts, bolts, and pipes. Included here are screwdrivers, ratchet drivers, and wrenches.

*Includes:* Screwdrivers; wrenches.

*Excludes:* Lathes (355); powered turning handtools (725).

#### **7180 Turning handtools--nonpowered, unspecified**

##### **7181 Screwdrivers**

*Phillips head*  
*Ratchet drivers*

*Straight tip*

##### **7182 Wrenches**

*Spanners*  
*Wrenches--adjustable*  
*Wrenches--allen*  
*Wrenches--box*  
*Wrenches--monkey*

*Wrenches--open-end*  
*Wrenches--pipe*  
*Wrenches--socket*  
*Wrenches--spark-plug*  
*Wrenches--tuning*

#### **7189 Turning handtools--nonpowered, n.e.c.**

#### **719\* Other handtools--nonpowered**

This source group classifies other nonpowered handtools not previously classified.

*Includes:* Brooms, mops, and other cleaning tools; crowbars; pitchforks, sading forks; rakes; nonpowered stapling tools.

*Excludes:* Workbenches, worktables (232); hoisting accessories (43); metal fasteners such as nails, screws, nuts, and bolts (421); unattached drill bits and saw blades (443); powered handtools (72); handtools--power undetermined (73); carts and wheelbarrows (86).

#### **7190 Other handtools--nonpowered, unspecified**

##### **7191 Brooms, mops, and other cleaning tools**

*Brooms--hand*  
*Brooms--push*  
*Brooms--straw*  
*Brushes--cleaning*  
*Brushes--steel*  
*Dusters--feather*

*Leaf skimmers*  
*Mops*  
*Rags*  
*Ram rods (cleaning rods)*  
*Sponges*

##### **7192 Crowbars**

*Nail pullers*  
*Pinch bars (large crowbars)*

*Prying bars*  
*Wrecking bars*

##### **7193 Pitchforks, sading forks**

*Garden fork*  
*Hay fork*

*Manure fork*

##### **7194 Rakes**

*Rakes--garden*  
*Rakes--leaf*

*Rakes--swimming pool*

##### **7195 Stapling tools--nonpowered**

*Staplers--nonpowered*

*Staple guns--nonpowered*

\* - Asterisks indicate division, major group, or group titles.

**7199 Handtools--nonpowered, n.e.c.**

*Caulking guns*  
*Grease guns*  
*Hawks (mortar holders)*  
*Jigs*  
*Keys*  
*Miter boxes*  
*Padlocks*

*Paint brushes*  
*Paint sticks*  
*Peavies--log handling*  
*Rollers--paint*  
*Safety guides*  
*Staple removers*  
*Carpet kickers*

**72\* Handtools--powered**

This major group classifies all of the handtools which are hand-held and require a source of energy to operate (i.e., electricity, gasoline, diesel, coal, air, steam, water, or gunpowder). Powered handtools are grouped according to their common functions.

If a drill bit, saw blade, or other tool part produces an injury is **attached** to a handtool then the entire handtool should be listed as the source, unless the injury was inflicted by an electrical cord. Unattached drill bits and saw blades are classified in source group 443 (Tool parts, accessories).

If a part is known to be **unattached and independent** of a handtool--or if it is probable that a handtool is not involved in the injury--then that specific part should be listed as the source. Handtool parts are classified in source group 443 (Tool parts, accessories).

Certain handtools are manufactured in both powered and nonpowered varieties. If it cannot be determined whether a handtool is powered or nonpowered, it should be classified in major group 73 (Handtools--power not determined).

*Includes:* The following types of powered handtools: boring handtools; cutting handtools; striking and nailing handtools; surfacing handtools; turning handtools; welding and heating handtools; nail guns; powered scrubbers, waxers; handheld paint sprayers; electric or pneumatic stapling tools.

*Excludes:* Machinery (3); agricultural and garden machinery (31); power lawn mowers (3121); hair and hand dryers (3335); vacuum cleaners (3336); hydraulic, pneumatic jacks (347); metalworking machinery, woodworking machinery (35); stationary drills (3521); stationary saws (357); unattached drill bits, saw blades (443); nonpowered handtools (71).

**720 Handtools--powered, unspecified****721\* Boring handtools--powered**

This source group classifies powered hand-held boring tools such as portable electric drills, compressed-air drills, braces, and augers.

Unattached drill bits are classified in 4431 (Drill bits--unattached).

*Includes:* Augers; braces; drills.

*Excludes:* Drilling machines and augers used in construction and mining (3241); boring, drilling, and milling machines used in manufacturing (352); unattached drill bits (4431).

**7210 Boring handtools--powered, unspecified****7211 Augers--powered****7212 Braces--powered****7213 Drills--powered**

*Countersinks--powered*  
*Drills--cordless*  
*Drills--hand*

*Drills--pneumatic*  
*Drills--variable speed*

\* - Asterisks indicate division, major group, or group titles.

**7214 Routers and molders--powered****7219 Boring handtools--powered, n.e.c****722\* Cutting handtools--powered**

This source group classifies powered hand-held cutting tools such as power chisels, power knives, portable power saws, and electric cutters, shears, and razors. Unattached saw blades are classified in 4432 (Saw blades--unattached).

*Includes:* Chainsaws; powered chisels; powered knives; powered saws (except chainsaws); handheld powered lawn cutters, weed trimmers.

*Excludes:* Stationary sawing machinery (357); laser cutting machinery (3592); unattached saw blades (4432).

**7220 Cutting handtools--powered, unspecified****7221 Chainsaws--powered****7222 Chisels--powered****7223 Knives--powered****7224 Saws--powered, except chainsaws**

*Circular saws*

*Jig saws*

**7229 Cutting handtools--powered, n.e.c.**

*Cutters--powered*

*Shears--powered*

*Edgers--powered*

*Trimmers--powered*

*Razors--electric*

**723\* Striking and nailing handtools--powered**

This source group classifies powered handtools which are commonly used for delivering blows or strokes, or for nailing.

*Includes:* Powered hammers; jackhammers; powered punches; powered riveters.

*Excludes:* Pile driving, stamping machinery--construction (3293); nonpowered striking and nailing handtools (716); powered nail guns (7291); powered stapling tools (7295).

**7230 Striking handtools--powered, unspecified****7231 Hammers--powered**

*Air hammers*

*Hammers--electric*

*Chipping hammers--electric*

*Power hammers*

**7232 Jackhammers--powered**

*Hammers--pile driving*

*Jackhammers*

*Hammers--steam*

**7233 Punches--powered****7234 Riveters--powered**

*Hammers--electric riveting*

*Riveters--pneumatic*

*Riveters--electric*

*Riveters--powered*

**7239 Striking handtools--powered, n.e.c.****724\* Surfacing handtools--powered**

\* - Asterisks indicate division, major group, or group titles.

This source group classifies powered hand-held surfacing tools such as buffers, grinders, and sanders. Unattached grinding wheels are classified in 7174 (Sharpening stones and wheels).

*Includes:* Powered buffers, polishers, waxers; powered hand grinders; powered sanders; sandblasters.

*Excludes:* Grinding and polishing machinery (354); nonpowered surfacing handtools (717); unattached grinding wheels (7174).

**7240 Surfacing handtools--powered, unspecified**

**7241 Buffers, polishers, waxers--powered**

*Buffering machines--hand*  
*Floor buffers*

*Polishers--powered*  
*Polishing heads*

**7242 Hand grinders--powered**

*Grinders--bench*  
*Grinders--electric*  
*Grinders--pneumatic*  
*Grinders--snagging*

*Grinders--waterstone*  
*Grinders--wet Stone*  
*Grinders--wet/dry*

**7243 Sanders--powered**

*Sand belts*  
*Sanders--belt*

*Sanders--disc*  
*Sanders--finishing*

**7244 Sandblasters--powered**

**7249 Surfacing handtools--powered, n.e.c.**

*Rasps--rotary*

**725\* Turning handtools--powered**

This source group classifies powered hand-held turning tools which are commonly used to revolve or rotate screws, nuts, bolts, and pipes. All types of powered hand-held screwdrivers and wrenches are included here.

*Includes:* Powered bolt setters; powered impact wrenches; powered screwdrivers.

*Excludes:* Lathes, turning machines (355).

**7250 Turning handtools--powered, unspecified**

**7251 Bolt setters--powered**

**7252 Impact wrenches--powered**

*Wrenches--air*

*Wrenches--impact*

**7253 Screwdrivers--powered**

**7259 Turning handtools--powered, n.e.c.**

**726\* Welding and heating handtools--powered**

This source group classifies powered hand-held welding tools which are used to solder, weld, or burn. Included here are soldering guns, welding torches, electric burn-in knives, and woodburning pens.

*Includes:* Blow torches; soldering irons; welding torches.

*Excludes:* Welding and soldering fumes (057); irons (3323); laser cutting machinery (3592); spot welding machinery (3594).

**7260 Welding and heating handtools--powered, unspecified**

\* - Asterisks indicate division, major group, or group titles.



**7261 Blow torches****7262 Soldering irons--powered**

*Burning systems*  
*Electric burn-in knives*  
*Soldering coppers*  
*Soldering tools*  
*Soldering guns*

*Tips--soldering*  
*Tiplets--soldering*  
*Soldering Irons*  
*Woodburning sets*  
*Woodburning pens*

**7263 Welding torches--powered**

*Welding torches*

*Propane torches*

**7269 Welding and heating handtools--powered, n.e.c.****729\* Other handtools--powered**

This source group classifies powered handtools which are not elsewhere classified such as nail guns, staple guns, power punches, scrubbers, paint sprayers, and flashlights.

*Includes:* Powered nail guns; powered scrubbers; handheld paint sprayers; powered stapling tools; flashlights.

*Excludes:* Machinery (3); agricultural and garden machinery (31); power lawn mowers (3121); hair and hand dryers (3335); vacuum cleaners (3336); hydraulic, pneumatic jacks (347); metalworking machinery, woodworking machinery (35); stationary drills (3521); stationary saws (357); painting machinery (3796); unattached drill bits, saw blades (443); nonpowered handtools (71).

**7290 Other handtools--powered, unspecified****7291 Nail guns--powered**

*Nail guns--air*  
*Nail guns--electric*  
*Nail guns--gunpowder activated*

*Point drivers*

**7293 Scrubbers--powered****7294 Sprayers--paint****7295 Stapling tools--electric or pneumatic**

*Staple guns--electric*  
*Staple guns--gunpowder activated*

*Staple guns--pneumatic*

**7299 Handtools--powered, n.e.c.**

*Flashlights*

*Plate joiners*

**73\* Handtools--power not determined**

This source group should only be used to classify those handtools which are manufactured in both powered and nonpowered varieties. If it cannot be determined whether these handtools are powered or nonpowered, they should be classified in this major group. For specific definitions of the source group categories, refer to the corresponding source groups under nonpowered (71) or powered (72) handtools.

*Includes:* The following types of handtools (power not determined): boring; cutting; striking; nailing; surfacing; turning; stapling.

*Excludes:* Handtools determined to be nonpowered (71); handtools determined to be powered (72).

**730 Handtools--power not determined, unspecified****731\* Boring handtools--power not determined**

\* - Asterisks indicate division, major group, or group titles.

For a specific definition of this source group, refer to the corresponding source group under nonpowered (71) or powered (72) handtools.

- 7310 Boring handtools--power not determined, unspecified**
- 7311 Augers--power not determined**
- 7312 Braces--power not determined**
- 7313 Drills--power not determined**
- 7319 Boring handtools--power not determined, n.e.c.**

**732\* Cutting handtools--power not determined**

For a specific definition of this source group, refer to the corresponding source group under nonpowered (71) or powered (72) handtools.

- 7320 Cutting handtools--power not determined, unspecified**
- 7321 Chisels--power not determined**
- 7322 Knives--power not determined**
- 7323 Saws--power not determined**
- 7329 Cutting handtools--power not determined, n.e.c.**

**733\* Striking and nailing handtools--power not determined**

For a specific definition of this source group, refer to the corresponding source group under nonpowered (71) or powered (72) handtools.

- 7330 Striking and nailing handtools--power not determined, unspecified**
- 7331 Hammers--power not determined**
- 7332 Punches--power not determined**
- 7339 Striking and nailing handtools--power not determined, n.e.c.**

**734\* Surfacing handtools--power not determined**

For a specific definition of this source group, refer to the corresponding source group under nonpowered (71) or powered (72) handtools.

- 7340 Surfacing handtools--power not determined, unspecified**
- 7341 Sanders--power not determined**
- 7349 Surfacing handtools--power not determined, n.e.c.**

**735\* Turning handtools--power not determined**

For a specific definition of this source group, refer to the corresponding source group under nonpowered (71) or powered (72) handtools.

- 7350 Turning handtools--power not determined, unspecified**
- 7351 Screwdrivers--power not determined**
- 7352 Wrenches--power not determined**
- 7359 Turning handtools--power not determined, n.e.c.**

**739\* Other handtools--power not determined**

For a specific definition of this source group, refer to the corresponding source group under nonpowered (71) or powered (72) handtools.

- 7391 Staplers--power not determined**
- 7399 Handtools--power not determined, n.e.c.**

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\* - Asterisks indicate division, major group, or group titles.

**74\* Ladders**

This major group classifies fixed and movable ladders of any construction: wooden, steel, aluminum, plastic, etc. Fixed ladders are immovable, permanent fixtures. Movable ladders are portable, foldable, or extendable. All ladders are classified here regardless of the structure or object to which they are attached.

*Includes:* Fixed ladders; movable ladders.

*Excludes:* Stairs, steps (625).

**740 Ladders, unspecified****741 Ladders--fixed**

This source group classifies fixed ladders that are immovable, permanent fixtures. Included here are ladders that are used in silos, sewers, fire escapes, and swimming pools.

*Ladders--chain*

*Ladders--fire escape*

*Ladders--sewer*

*Ladders--silo*

*Ladders--swimming pool*

**742\* Ladders--movable**

This source group classifies ladders that are portable, foldable, or extendable such as step stools, step ladders, extension ladders, and fire truck ladders.

*Includes:* Extension ladders; step ladders; straight ladders; truck-mounted ladders, aerial ladder trams.

*Excludes:* Fixed ladders (741).

**7420 Movable ladders, unspecified****7421 Extension ladders****7422 Step ladders**

*Ladders--folding*

*Ladders--step*

*Stiles*

*Stools--step*

**7423 Straight ladders****7424 Truck mounted ladders, aerial ladder trams**

*Ladders--fire truck*

*Ladders--utility truck*

**7429 Movable ladders, n.e.c.**

*Ladder assemblies--combination work stands*

**749 Ladders, n.e.c.****75\* Medical and surgical instruments**

This major group classifies all medical, surgical, ophthalmic, and veterinary instruments. Included here are hypodermic needles and syringes; surgical knives (scalpels); medical forceps and retractors; and other medical and surgical instruments.

*Includes:* Needles and syringes; scalpels, surgical knives.

*Excludes:* Oxygen tanks (123); laser cutting machinery (3592); medical machinery, except x-ray (3721); x-ray machinery (3722); respirators (776); health care and orthopedic equipment, n.e.c (794); wheelchairs (797).

\* - Asterisks indicate division, major group, or group titles.

**750 Medical and surgical instruments, unspecified****751 Needles and syringes**

This source group classifies all needles and syringes used in the medical field. Included here are suture needles for making stitches in animals and humans, and hypodermic needles or syringes for injecting or removing fluids from animals and humans. Sewing needles are classified in 7962 (Sewing needles).

*Needles--hypodermic*  
*Needles--suture*

*Syringes--hypodermic*

**752 Scalpels**

This source group classifies all surgical knives which are used in the medical field. All other nonpowered knives are classified in 7124 (Knives).

*Knives--surgical*

*Scalpels*

**759 Medical and surgical instruments, n.e.c.**

This source group classifies Medical and surgical instruments that are not elsewhere classified including the items listed below.

*Dental burs*  
*Forceps*  
*IV transfusion apparatus*

*Retractors*  
*Speculums*  
*Trephines*

**76\* Photographic equipment**

This major group classifies all types of cameras and photographic equipment used in the photography field such as cameras, slide and movie projectors, video cameras, photographic paper, tripods, stands, photographic and x-ray film, and other equipment related to the field of photography.

*Includes:* Cameras; photographic paper and cloth; projectors; tripods, stands; darkroom apparatus.

*Excludes:* Photographic and copying solutions (0793); optical scanning devices (3614); photocopiers (3625); x-ray machinery and equipment (3722).

**760 Photographic equipment, unspecified****761 Cameras--still and motion picture**

This source group classifies photographic cameras of all kinds, both still and motion picture.

*Excludes:* Cameras used with x-ray equipment (3722; video players and recorders (3914).

*Cameras--aerial*  
*Cameras--box*  
*Cameras--candid*  
*Cameras--folding*  
*Cameras--hand*  
*Cameras--home movie*  
*Cameras--instant*  
*Cameras--motion-picture*

*Cameras--movie*  
*Cameras--pinhole*  
*Cameras--portrait*  
*Cameras--reflex*  
*Cameras--still*  
*Cameras--television*  
*Cameras--video*  
*Identity recorders*

**762 Photographic paper and cloth**

Included in this source group are photosensitive papers and cloths which are used in developing and printing photographs.

\* - Asterisks indicate division, major group, or group titles.

Paper and pulp items, except photographic paper, are classified in major group 94 (Paper, books, magazines).

<i>Cloth--blueprint</i>	<i>Paper--blueprint</i>
<i>Cloth--brownprint</i>	<i>Paper--brownprint</i>
<i>Cloth--diaz</i>	<i>Paper--diaz</i>
<i>Cloth--photographic</i>	<i>Paper--photographic</i>

### 763 Projectors--still and motion picture

This source group classifies photographic equipment used to project and view photographic images such as movie and slide projectors.

Large screen and projection televisions are classified in 3913 (Televisions). Video players are classified in 3914 (Video players).

<i>Projectors--cinema</i>	<i>Projectors--slide</i>
<i>Projectors--home movie</i>	

### 764 Tripods, stands

This source group classifies tripods and stands which are used to brace cameras and projectors.

<i>Braces--camera</i>	<i>Stands</i>
<i>Braces--projector</i>	<i>Tripods</i>

### 769 Photographic equipment, n.e.c.

This source group classifies photographic equipment that is not elsewhere classified.

<i>Camera parts</i>	<i>Flash bulbs</i>
<i>Darkroom apparatus</i>	<i>Movie screens</i>
<i>Developing apparatus</i>	<i>Photographic and graphic arts plates</i>
<i>Editing equipment</i>	<i>Photographic film--motion picture,</i>
<i>Enlargers</i>	<i>X-Ray, still camera,</i>
<i>Exposure meters</i>	<i>Special purpose</i>
<i>Film reels</i>	<i>Photographic tanks</i>

### 77\* Protective equipment, except clothing

This major group classifies protective equipment (except clothing) worn to protect workers from injuries or illnesses in hazardous work environments.

*Includes:* Dust masks; earplugs and hearing protectors; face shields, welding masks; hard hats; lifelines, lanyards, safety belts or harnesses; respirators; safety glasses or goggles.

*Excludes:* Oxygen tanks (123); protective clothing and other apparel (921); identification badge lanyards; latex gloves (9211).

### 770 Protective equipment, except clothing, unspecified

#### 771 Dust masks

#### 772 Earplugs and hearing protectors

#### 773 Face shields, welding masks

#### 774 Hard hats

#### 775 Lifelines, lanyards, safety belts or harnesses

### 776 Respirators

This source group classifies all respiratory protection equipment including air supply masks, self-contained breathing apparatus (SCBA), and air helmets.

Oxygen tanks are classified in source group 123 (Oxygen tanks).

\* - Asterisks indicate division, major group, or group titles.

777 Safety glasses or goggles  
 779 Protective equipment, except clothing, n.e.c.

*Band-aids*

*Latex band-aids*

**78\* Recreation and athletic equipment**

This major group classifies indoor and outdoor recreation and athletic equipment. It also includes fishing equipment, including that used in commercial fishing.

*Includes:* Camping equipment; gymnasium and exercise equipment; playground equipment; riding goods and equipment; snow skiing goods and equipment; water sports equipment; fishing equipment.

*Excludes:* Firearms (793); ammunition (91); athletic clothing and footwear--excluding skis and skates (921).

**780 Recreation and athletic equipment, unspecified**

**781 Camping equipment**

This source group classifies equipment that is used for camping outdoors.

*Excludes:* Tarps (472); flashlights (7299); air mattresses (789).

*Back packs*

*Portable lanterns*

*Canteens*

*Sleeping bags*

*Mess kits*

*Tents and accessories*

*Portable coolers*

*Thermoses*

**782 Gymnasium and exercise equipment**

This source group classifies equipment that is used for exercising, weight lifting, and gymnastics such as jump ropes, gym mats, exercise machines, exercise cycles, jogging machines, rowing machines, treadmills, weight-lifting equipment, and all other equipment used for exercising and gymnastics.

*Exercise cycles*

*Jump ropes*

*Exercise machines*

*Rowing machines*

*Gym mats*

*Treadmills*

*Jogging machines*

*Weight-lifting equipment*

**783 Playground equipment**

This source group classifies equipment that is commonly used in playgrounds. Included are swings and swing sets, sliding boards, sandboxes, and outdoor play sets.

*Jungle bars*

*Sliding boards*

*Play sets--outdoor*

*Swing sets*

*Sandboxes*

*Swings*

**784 Riding goods and equipment**

This source group classifies horse riding goods and equipment. Included here is saddlery and other related equipment.

*Crops*

*Saddlery*

*Reins*

*Saddles*

**785 Snow skiing goods and equipment**

This source group classifies equipment which is related to snow skiing.

*Includes:* Skis; ski poles; bobsleds; sleds; toboggans; luges.

\* - Asterisks indicate division, major group, or group titles.

*Excludes:* Safety glasses, goggles (777); ice skates (789); snowmobiles (843); skiing apparel (92).

## 786 Water sports equipment

This source group classifies all water sports equipment--except suits and apparel--which is used for diving (excluding oxygen tanks in source group 123), surfing, swimming, and other related water sports. Included here are surfboards, skin diving equipment, scuba diving equipment, kick boards, windsurfing boards and equipment, sailboards, and fishing equipment—both commercial and recreational.

*Excludes:* Oxygen tanks (123); ear plugs (772); water vehicles (88); jet skis (88); bathing suits, wet suits, beach apparel (921).

<i>Diving masks</i>	<i>Nose plugs</i>
<i>Fishing equipment</i>	<i>Sailboards</i>
<i>Flotation devices</i>	<i>Scuba diving equipment</i>
<i>Inner tubes--recreational</i>	<i>Skin diving equipment</i>
<i>Kick boards</i>	<i>Snorkels</i>
<i>Life preserves</i>	<i>Surfboards</i>
<i>Lobster and crab traps</i>	

## 789 Recreation and athletic equipment, n.e.c.

This source group classifies recreation and athletic equipment not elsewhere classified including the items listed below.

*Excludes:* Respirators and personal protective devices (77); mopeds (823); bicycles (8312); powered golf carts (842); gocarts (849).

<i>Air mattresses</i>	<i>Golfing equipment</i>
<i>Arcade games</i>	<i>Hockey equipment</i>
<i>Archery equipment</i>	<i>Ice skates</i>
<i>Baseball equipment</i>	<i>Pinball machines</i>
<i>Basketball equipment</i>	<i>Roller skates/blades</i>
<i>Billiards tables, equipment</i>	<i>Skateboards</i>
<i>Boomerangs</i>	<i>Slot machines</i>
<i>Bowling equipment</i>	<i>Soccer equipment</i>
<i>Boxing equipment</i>	<i>Tennis equipment</i>
<i>Football equipment</i>	<i>Balls of various types</i>

## 79\* Other tools, instruments, and equipment

This major group classifies other tools, instruments, and containers not previously classified.

*Includes:* Clocks; cooking and eating utensils, except knives; firearms; health care and orthopedic equipment, n.e.c.; musical instruments; sewing notions, n.e.c.; wheelchairs and mobility scooters; writing, drawing, and art supplies.

*Excludes:* Containers (1); furniture and fixtures (2); tool chests (212); machinery (3); mechanical jacks (3472); parts and materials (4); hoisting accessories (43); machine, tool, and electric parts (44); tool parts, accessories (443); tarps (472).

## 791 Clocks

This source group classifies digital and analog alarm clocks, wall clocks and mantle clocks, as well as grandfather clocks. Included here are office clocks, cuckoo clocks, ships clocks, travel alarm clocks, and standing clocks.

*Excludes:* Clock radios (3911); wrist and pocket watches (9223).

<i>Clocks--cuckoo</i>	<i>Clocks--standing</i>
<i>Clocks--grandfather</i>	<i>Clocks--travel alarm</i>
<i>Clocks--office</i>	<i>Hourglasses</i>
<i>Clocks--ships</i>	<i>Time clocks</i>

\* - Asterisks indicate division, major group, or group titles.

**792 Cooking and eating utensils, except knives**

<i>Bottle openers</i>	<i>Spatulas</i>
<i>Forks</i>	<i>Spoons</i>
<i>Rolling pins</i>	

**793\* Firearms**

This source group classifies all types of handheld firearms and their parts.

*Includes:* Pistols, handguns, revolvers (7931); rifles (7932); shotguns (7933); taser guns, stun guns, and electroshock guns (7939).

*Excludes:* Archery equipment (789); bullets, pellets, bombs, torpedoes, grenades, missiles, rockets, artillery shells (91).

**7930 Firearm, unspecified****7931 Pistol, handgun, revolver****7932 Rifle****7933 Shotgun****7939 Firearm, n.e.c.****794 Health care and orthopedic equipment, n.e.c.**

<i>Canes</i>	<i>Physical therapy equipment</i>
<i>Corsets</i>	<i>Stretchers</i>
<i>Crutches</i>	<i>Supporters</i>
<i>Laboratory equipment, n.e.c.</i>	<i>Trusses</i>
<i>Orthopedic braces</i>	

**795\* Musical instruments**

This source group classifies all musical instruments and their associated parts and accessories, including music stands.

Piano benches are classified in source group 232 (Benches, workbenches, saw horses). Musical instrument cases are classified in source group 159 (Luggage, n.e.c.).

**7950 Musical instrument, unspecified****7951 Pianos****7959 Other musical instruments**

<i>Accordions</i>	<i>Musical instruments--electronic,</i>
<i>Banjos</i>	<i>except pianos</i>
<i>Bassoons</i>	<i>Musical instruments--non-</i>
<i>Bells</i>	<i>electronic, except pianos</i>
<i>Bugles</i>	<i>Musical instruments--percussion</i>
<i>Cellos</i>	<i>Oboes</i>
<i>Chimes</i>	<i>Ocarinas</i>
<i>Clarinets</i>	<i>Octophones</i>
<i>Cornets</i>	<i>Organs</i>
<i>Cymbals</i>	<i>Piccolos</i>
<i>Drums</i>	<i>Saxophones</i>
<i>Flutes</i>	<i>Synthesizers</i>
<i>French horns</i>	<i>Trombones</i>
<i>Guitars</i>	<i>Trumpets</i>
<i>Harmonicas</i>	<i>Ukuleles</i>
<i>Harps</i>	<i>Vibraphones</i>
<i>Harpsichords</i>	<i>Violas</i>
<i>Mandolins</i>	<i>Violins</i>
<i>Marimbas</i>	<i>Wind chimes</i>
<i>Musical instrument</i>	<i>Xylophones</i>
<i>accessories (e.g.</i>	<i>Zithers</i>
<i>reeds, mouthpieces,</i>	
<i>stands, traps)</i>	

\* - Asterisks indicate division, major group, or group titles.



**796\* Sewing notions, n.e.c.**

This source group classifies sewing notions which are commonly used to produce hand-sewn articles.

*Includes:* Fabric pins, safety pins; sewing needles; thimbles.

*Excludes:* Hypodermic needles (751).

**7960 Sewing notions, unspecified****7961 Fabric pins, safety pins****7962 Sewing needles****7969 Sewing notions, n.e.c.****797 Wheelchairs**

This source group classifies nonmotorized and motorized wheelchairs as well as motorized shopping carts and mobility scooters that function similar to wheelchairs

motorized

**798\* Writing, drawing, and art supplies**

This source group classifies writing instruments and artist supplies such as pens, pencils, and artists' supplies.

*Includes:* Art supplies and materials, except paint; chalk, crayons, marking devices; pens and pencils.

*Excludes:* Paint (0762); ink and dye (0791); drawing tables (236); blackboards and bulletin boards (29); modelling clay (553); paint brushes (7199); knives (712); paper (942).

**7980 Writing, drawing, and art supplies, unspecified****7981 Art supplies and materials, except paint**

*Canvasses*

*Easels*

*Eraser guides, shields*

*Erasers--pencil,  
blackboard*

*Frames--canvase*

**7982 Chalk, crayons, marking devices**

*Chalk--artists'*

*Chalk--blackboard*

*Chalk--marking*

*Chalk lines*

*Crayons--chalk*

*Crayons--charcoal*

*Crayons--wax*

*Markers--felt*

*Markers--soft tip*

*Pastels*

**7983 Pens and pencils**

*Cartridges--refills*

*Nibs*

*Pencils--colored*

*Pencils--lead*

*Pencils--mechanical*

*Pens--ball-point*

*Pens--fountain*

*Pens--meter*

*Quills*

**7989 Writing, drawing, and art supplies, n.e.c.**

*Dies--hand seal*

*Pads--ink*

*Screens--textile printing*

*Seals--hand*

*Stamps--hand*

*Stamps--rubber*

*Stencils*

\* - Asterisks indicate division, major group, or group titles.

**799 Tools, instruments, and equipment, n.e.c.**

This source group classifies other tools, instruments, and equipment not elsewhere classified.

*Excludes:* Containers (1); furniture and fixtures (2); tool chests (212); machinery (3); mechanical jacks (3472); parts and materials (4); hoisting accessories (43); machine, tool, and electric parts (44); tool parts, accessories (443); tarps (472).

*Candles*

*Climbing spurs*

*Combs*

*Curlers*

*Fly swatters*

*Globes--geographical*

*Safety cones*

*Lighters*

*Matches--book*

*Soap dispensers*

*Stilts*

*Tobacco pipes*

*Umbrellas*

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\* - Asterisks indicate division, major group, or group titles.

**8\* VEHICLES**

This division classifies vehicles that generally move on wheels, runners, water, or air. A vehicle serves the primary purpose of **transporting** people (e.g., automobiles, passenger trains), but it may serve as a means of **carrying or transferring** goods (e.g., forklifts, wheelbarrows). In addition, a vehicle may serve primarily as a recreational device (e.g., canoes, bicycles, jet skis, etc.). Vehicles for all modes of public, private, work-related, and recreational transportation are included in this division.

Machinery, which are primarily used for agricultural, construction, logging, mining, manufacturing, and other **processing purposes**, are classified in division 3 (Machinery).

**A vehicle or piece of mobile equipment should be selected whenever the event is a transportation accident.**

If a vehicle part that produces an injury is **attached** to the vehicle, then the entire vehicle should be listed as the source, unless the injury resulted from overexertion (such as pulling the cargo door of a tractor trailer), the incident involved a tractor/agricultural equipment combination, or the source of injury was a vehicle floor in a non transportation incident.

If a vehicle part is known to be **unattached and independent** of a vehicle--or if it is probable that a vehicle is not involved in the injury--then that specific part should be listed as the source. Unattached vehicle and mobile equipment parts are classified in major group 48 (Vehicle and mobile equipment parts). Unattached trailers are classified in source group 483 (Trailers). Unattached vehicle windshields and windows are classified in source group 484 (Windshields, vehicle windows).

If the source of an injury in a non-transportation accident is identified as the **floor surface in a vehicle**, it should be classified in 6225 (Floor of vehicle).

*Includes:* Air vehicles; motorized highway vehicles; nonmotorized highway vehicles; nonindustrial offroad vehicles; powered plant and industrial vehicles, tractors; nonpowered plant and industrial vehicles; rail vehicles; water vehicles.

*Excludes:* Machinery (3); agricultural and garden machinery (31); construction, logging, and mining machinery (32); material handling machinery (34); ski lifts (3499); street sweeping and cleaning machinery (3996); unattached vehicle and mobile equipment parts (48); floor surface of a vehicle (6225) in a non-transportation accident.

**80 Vehicle, unspecified****81\* Air vehicle**

This major group classifies fixed- and rotary-winged aircraft. The aircraft may be designed for public, private, or military use.

**An air vehicle code should be selected whenever the event is an aircraft accident.**

*Includes:* Powered fixed wing aircraft; powered rotary wing aircraft; nonpowered aircraft; spacecraft.

**810 Aircraft, unspecified****811\* Aircraft--powered fixed wing**

This source group classifies aircraft which is supported by a fixed wing structure. The aircraft can be jet engine or propeller powered.

*Includes:* Jet; propeller-driven aircraft.

*Excludes:* Helicopters (8121); nonpowered gliders (8131).

**8110 Aircraft--powered fixed wing, unspecified****8111 Jet****8112 Propeller-driven aircraft****8119 Aircraft--powered fixed wing, n.e.c.**

\* - Asterisks indicate division, major group, or group titles.

**812\* Aircraft--powered rotary wing**

This source group classifies aircraft which is supported by a rotary wing. The aircraft can be rotary wing only, or a combination of rotary wing and jet propulsion.

*Includes:* Helicopter; hovercraft.

*Excludes:* Jets (8111); propeller-driven fixed wing aircraft (8112).

**8120 Aircraft--rotary wing, unspecified****8121 Helicopter****8122 Hovercraft****8129 Aircraft--rotary wing, n.e.c.****813\* Aircraft--nonpowered**

This source group classifies aircraft which glides or floats without some type of power source (e.g., jet propulsion, propeller, hot air).

*Includes:* Nonpowered gliders; parachutes.

*Excludes:* Powered aircraft (811, 812, and 819).

**8130 Aircraft--nonpowered, unspecified****8131 Glider, nonpowered****8132 Parachute****8139 Aircraft--nonpowered, n.e.c.****819 Aircraft, n.e.c.**

This source group classifies aircraft which are not previously classified.

*Includes:* Hot-air balloons; dirigibles; spacecraft.

**82\* Highway vehicle, motorized**

This major group classifies vehicles which are operated primarily on highways and used for transportation, hauling, delivering, and emergencies.

*Includes:* Automobiles; buses; motorcycles, mopeds, dirt bikes; motor homes, recreational vehicles; trucks; vans.

*Excludes:* Nonmotorized highway vehicles such as bicycles, horse drawn carriages (83); powered industrial carriers (852); tractors (853).

**820 Highway vehicle, unspecified****821 Automobile**

*Cars*

*Limousines*

*Station wagons*

**822 Bus****823 Motorcycle, moped****824 Motor home, recreational vehicle****825\* Truck**

This source group classifies trucks which are commonly used for transporting, hauling, and delivering goods and materials. Delivery trucks are straight or box trucks that are typically used to deliver such items as parcels, beverages, oil, linens, and furniture. Straight and box trucks used for other purposes besides delivering goods are also

\* - Asterisks indicate division, major group, or group titles.

included in code 8251. Delivery vans are coded in 826. Semitrailers that are used for delivering automobiles or other items are coded 8254.

*Includes:* Delivery (box) trucks; dump trucks; pickup trucks; semitrailers, tractor trailers, and trailer trucks; sport utility vehicles (SUVs)

*Excludes:* Aerial and bucket trucks (3461); street sweepers (3996); forklifts (851); powered industrial carriers (852); tractors (853); handtrucks (861), vans (826)

**8250 Truck, unspecified**

**8251 Delivery truck**

**8252 Dump truck**

**8253 Pickup truck**

**8254 Semitrailer, tractor trailer, trailer truck**

**8259 Truck, n.e.c.**

*Cement trucks*

*Garbage trucks*

*Fire trucks*

*Sport utility vehicles (SUVs)*

**826 Van--passenger or light delivery**

*Vans*

*Minivans*

**829 Highway vehicle, motorized, n.e.c.**

*Ambulances*

**83\* Highway vehicle, nonmotorized**

This source group classifies animal or human powered highway vehicles, as well as other nonmotorized highway vehicles.

*Includes:* Horse drawn carriages; bicycles—road and mountain.

*Excludes:* Motorized highway vehicles (82); nonpowered plant and industrial vehicles (86).

**830 Highway vehicle, nonmotorized, unspecified**

**831\* Animal or human powered vehicle**

**8311 Horse drawn carriage**

**8312 Bicycle**

**8319 Animal or human powered vehicle, n.e.c.**

**839 Highway vehicle, nonmotorized, n.e.c.**

**84\* Offroad vehicle, nonindustrial**

This source group classifies nonindustrial offroad vehicles that are commonly used for recreational or special terrain-traversing purposes.

*Includes:* All terrain vehicles (ATV's); powered golf carts; snowmobiles; motorized scooters, except for mobility scooters

*Excludes:* Motorcycles, dirt bikes (823); jeeps, four-wheel drive trucks, sports utility vehicles (8259); mountain bicycles (8312); wheelchairs and mobility scooters (797) .

**840 Offroad vehicle, nonindustrial, unspecified**

**841 All terrain vehicle (ATV)**

**842 Golf cart, powered**

**843 Snowmobile**

**849 Offroad vehicle, nonindustrial, n.e.c.**

*Motorized scooters*

\* - Asterisks indicate division, major group, or group titles.

**85\* Plant and industrial powered vehicles, tractors**

This major group classifies forklifts, powered industrial carriers (except forklifts), and tractors which are used for carrying and transporting heavy materials.

*Includes:* Forklifts; powered industrial carriers; tractors and power take-offs.

*Excludes:* Robots (392); truck and vehicle scales (7159).

**850 Plant and industrial powered vehicles, unspecified****851\* Forklift**

This source group classifies self-propelled industrial vehicles used for hoisting and transporting heavy objects by inserting steel girders or a solid platform. Skid steers with forklift attachments are included here. Motorized pallet jacks are also included in this category.

*Excludes:* Material handling machinery, conveyors, cranes, overhead hoists, aerial lifts, powered jacks (34); other powered industrial carriers (852), highway trucks (825); nonpowered pallet jacks (861).

- 8510 Forklift, unspecified**
- 8511 Counterbalance rider--high lift**
- 8512 Hand/rider forklift truck--motorized**
- 8513 Order picker high lift truck**
- 8514 Pallet lift truck--motorized**
- 8515 Platform lift truck--high or low lift**
- 8516 Reach rider lift truck**
- 8517 Single side loader rider truck**
- 8518 Straddle rider lift truck**
- 8519 Forklift, n.e.c.**

**852\* Powered industrial carrier, except forklifts**

This source group classifies mechanically operated (powered) vehicles used for carrying payloads.

*Excludes:* Highway trucks (825); semitrailers (8254); forklifts (851).

- 8520 Powered industrial carrier, unspecified**
- 8521 Container carrier**
- 8522 Lumber carrier**
- 8523 Stacker carrier**
- 8524 Straddle carrier**
- 8529 Powered industrial carrier, n.e.c.**

**853 Tractor**

This source group classifies tractors which are commonly used for towing agricultural and hauling implements. Power take-offs (PTOs) connecting tractors to another piece of equipment are coded here.

Specialized agricultural or construction machinery which consist of a tractor and the specialized attachment are coded as separate entities according to the rules of selection. Incidents resulting solely from the equipment attached to the tractor, such as being caught in a baler, should be coded to the specific equipment involved. Incidents in which the worker falls from a moving tractor and is struck by the equipment being pulled are coded with the tractor as the source and the attached equipment as the secondary source,

*Includes:* Farm tractors, power take-offs

*Excludes:* Haying machines, tractor-mowers, hay mowers, brush hogs (3123)

**859 Plant and industrial powered vehicle, n.e.c.**

\* - Asterisks indicate division, major group, or group titles.

**86\* Plant and industrial vehicle--nonpowered**

This source group classifies nonpowered plant and industrial vehicles (and other wheeled equipment) used for transporting and hauling payloads.

*Includes:* Carts, dollies, handtrucks (861); shopping carts (861); wheelbarrows (862); nonpowered pallet jacks (861).

*Excludes:* Motorized shopping carts and mobility scooters (797)

**860 Plant and industrial vehicle--nonpowered, unspecified**

**861 Cart, dolly, handtruck**

**862 Wheelbarrow**

**869 Plant and industrial vehicle--nonpowered, n.e.c.**

**87\* Rail vehicle**

This major group classifies mass transit and freight vehicles operating above and below ground.

**870 Rail vehicle, unspecified**

**871 Amusement park rail vehicle**

*Monorail rides*

*Roller coasters*

*Other rides traveling on rails*

**872 Streetcar, trolley**

**873 Subway**

**874 Train**

**879 Rail vehicle, n.e.c.**

**88\* Water vehicle**

This major group classifies water vehicles used for transporting materials or for recreational purposes.

*Excludes:* Hovercraft (8122).

**880 Water vehicle, unspecified**

**881 Barge**

**882 Canoe, kayak, rowboat, raft**

**883 Jet skis**

**884 Motorboat, yachts**

**885 Sailboat, sailing ship**

**886 Ships--other than sail powered**

**887 Tugboat, commercial fishing boat**

**889 Water vehicle, n.e.c.**

**89 Vehicles, n.e.c.**

This major group classifies vehicles which are not previously classified.

\* - Asterisks indicate division, major group, or group titles.

**9\* OTHER SOURCES**

This division classifies sources of injuries and illness that are not classified in the previous divisions. Classified here are ammunition and explosive devices; apparel and textiles; atmospheric and environmental conditions; paper, books, magazines; scrap, waste, debris; steam, vapors, liquids, n.e.c.; and other sources n.e.c.

*Includes:* Ammunition; apparel and textiles; atmospheric and environmental conditions; paper, books, magazines; scrap, waste, debris; steam, vapors, liquids, n.e.c.

*Excludes:* (See individual major groups).

**91\* Ammunition**

This major group classifies those projectiles which are fired by a weapon or exploded as a weapon, such as mines and grenades.

Select bullets as the source of injuries due to gunshot wounds.

*Includes:* Bullets; explosive devices; pellets.

*Excludes:* Dynamite; gunpowder, fireworks (075); firearms (793).

**910 Ammunition, unspecified****911 Bullets****912 Explosive devices**

<i>Bombs</i>	<i>Mines</i>
<i>Depth charges</i>	<i>Missiles</i>
<i>Grenades</i>	<i>Torpedoes</i>

**913 Pellets**

*Shot*

**919 Ammunition, n.e.c.****92\* Apparel and textiles**

This major group classifies all products and apparel that clothe the human body made from any fabric. Also included here are jewelry, watches, eyeglasses; textile products; and laundry.

*Includes:* Clothing and shoes; eye glasses, jewelry, and watches; textile products; laundry.

*Excludes:* Fur, wool, and leather (5113); hard hats (774); safety glasses or goggles (777); skis (785); ice, roller skates (789).

**920 Apparel and textiles, unspecified****921\* Clothing and shoes**

This source group classifies all products and apparel that clothe the human body regardless of fabric type. This category includes most protective clothing, including latex gloves, and safety shoes. Safety glasses and goggles are coded in 777.

*Includes:* Belts, gloves, neckties, scarves; blouses shirts, dresses, trousers, skirts; hats, caps; shoes, boots, slippers, sandals.

*Excludes:* Fur, wool, and leather (5113); hard hats (774); skis (785); ice, roller skates (789); glasses (9221); safety glasses and goggles (777).

\* - Asterisks indicate division, major group, or group titles.



<b>9210</b>	<b>Clothing, unspecified</b>	
<b>9211</b>	<b>Belts, gloves, neckties, scarves</b>	
<b>9212</b>	<b>Blouses, shirts, dresses, trousers, skirts</b>	
<b>9213</b>	<b>Hats, caps</b>	
<b>9214</b>	<b>Shoes, boots, slippers, sandals</b>	
<b>9215</b>	<b>Suits, coats, jackets</b>	
<b>9219</b>	<b>Clothing, n.e.c.</b>	
	<i>Bathing suits</i>	<i>Nightgowns</i>
	<i>Briefs</i>	<i>Nightshirts</i>
	<i>Diving suits</i>	<i>Pajamas</i>
	<i>Lingerie</i>	<i>Swimsuits</i>

**922\* Eye glasses, jewelry, and watches**

*Excludes:* Safety glasses and goggles (777)

<b>9221</b>	<b>Eye glasses, sunglasses</b>
<b>9222</b>	<b>Jewelry</b>
<b>9223</b>	<b>Watches</b>

**923\* Textile products**

This source group classifies all fabrics, synthetic and natural, whether woven, knitted, felted, bonded, or crocheted.

*Includes:* Fabric; yarn, thread.

*Excludes:* Bolts or rolls of fabric (133); floor, wall, window coverings (22); beds, bedding, mattresses (231); textile, apparel, leather production machinery (376); clothing and shoes (921).

<b>9230</b>	<b>Textile products, unspecified</b>
<b>9231</b>	<b>Fabric</b>
<b>9232</b>	<b>Yarn, thread</b>
<b>9239</b>	<b>Textile products, n.e.c.</b>

**924 Laundry****929 Apparel and textiles, n.e.c.**

This source group classifies apparel and textiles not elsewhere classified.

**93\* Atmospheric and environmental conditions**

This major group classifies conditions of the environment such as air pressure, temperature, and other atmospheric conditions, as well as events such as natural disasters.

**Select weather and atmospheric conditions, or geological events (floods, earthquakes, avalanches), as the source of injury when that is the only possible source identified.**

*Includes:* Air pressure; avalanche, mud slide; earthquake; fire, flame, smoke; flood; environmental temperature extremes; weather and atmospheric conditions; noise, sun.

**930 Atmospheric and environmental conditions, unspecified****931\* Air pressure**

This source group classifies abnormal, environmental air pressure conditions. High pressure should be used in instances of caisson work, deep diving, etc. Low pressure refers to rarefied air at extreme elevations. Blasts of pressurized air are coded in 98.

<b>9310</b>	<b>Air pressure, unspecified</b>
<b>9311</b>	<b>High pressure</b>

\* - Asterisks indicate division, major group, or group titles.

**9312 Low pressure****932 Avalanche, mud slide****933 Earthquake****934\* Fire, flame, smoke**

This source group classifies fire, flame, smoke, and fire gases. When an injury or illness is inflicted by hot objects or substances, code to the specific object or substance.

*Includes:* Fire, flame; smoke, fire gases.

*Excludes:* Welding fumes (057).

**9340 Fire, flame, smoke, unspecified****9341 Fire, flame****9342 Smoke, fire gases**

*Cigarette smoke*

**935 Flood**

Select this source group is as the source of injury when a flood is the only possible source identified.

*Includes:* Floods.

*Excludes:* Rain (9375); water (9621).

**936\* Temperature extremes--environmental**

This source group classifies atmospheric, environmental temperature extremes. Codes in this category are used primarily in instances of heat stroke, heat exhaustion, hypothermia, etc.

*Excludes:* Fire, flame, smoke (934); ice, sleet, snow (9373); hot or cold objects.

**9360 Temperature extremes--environmental, unspecified****9361 Cold--environmental****9362 Heat--environmental****937\* Weather and atmospheric conditions**

This source group classifies weather and atmospheric conditions. If rain or high winds are a result of a hurricane or tornado, code the hurricane or tornado as the source.

When the injury results from a weather condition, but is inflicted by another specific source, code the specific source. For example, if high winds result in blowing sawdust which irritates the employees eyes, the sawdust should be coded as the source.

*Excludes:* Air pressure (931); avalanche (932); earthquake (933); flood (935); hot and cold environmental temperature extremes (936); sun (9392).

**9370 Weather and atmospheric conditions, unspecified****9371 Fog****9372 High winds, gusts****9373 Ice, sleet, snow****9374 Lightning****9375 Rain****9376 Smog****9377 Tornado, hurricane, typhoon****9379 Weather and atmospheric conditions, n.e.c.**

*Waves*

\* - Asterisks indicate division, major group, or group titles.

**939\* Other environmental conditions**

*Includes:* Noise, sun, oxygen deficiency

*Excludes:* Smog (9376); environmental heat (9362); poor air quality, not otherwise specified (9999)

**9391 Noise**

**9392 Sun**

**9399 Environmental conditions, n.e.c.**  
*Oxygen deficiency*

**94\* Paper, books, magazines**

This major group classifies paper and paper products such as books and magazines. It also includes unbound stacks of paper.

*Excludes:* Containers (1); rolls of paper (133); photographic paper (762).

**940 Paper, books, magazines, unspecified**

**941 Books, notebooks, magazines, catalogues**

**942 Paper, sheets**

**949 Paper, books, magazines, n.e.c.**  
*File folders*

**95\* Scrap, waste, debris**

This major source group classifies discarded fragments such as ashes, garbage, sewage, etc.; as well as other dirt, glass, metal, wood, rubber, or unidentified particles.

*Includes:* Chips, particles, splinters; sewage; trash, garbage.

*Excludes:* Chemical metallic particulates, trace elements, dusts, powders, fumes (05); molten or hot metals, slag (452); metallic minerals (54); nonmetallic minerals, except fuel (55).

**950 Scrap, waste, debris, unspecified**

**951\* Chips, particles, splinters**

**9510 Chips, particles, splinters, unspecified**

**9511 Dirt particles**

**9512 Glass chips or fibers**

**9513 Metal chips, particles**

**9514 Wood chips, sawdust**

**9519 Chips, particles, splinters, n.e.c.**

**952 Sewage**

**953 Trash, garbage**

**959 Scrap, waste, debris, n.e.c.**

*Rubble*

*Tree sap, pulp*

**96\* Steam, vapors, liquids, n.e.c.**

This major group classifies water, steam, water vapor, and other liquids and vapors not elsewhere classified.

*Includes:* Nonchemical steam, vapors; liquids, water.

*Excludes:* Rain (9375); water pressure changes occurring during diving (931)

\* - Asterisks indicate division, major group, or group titles.

**961 Steam, vapors--nonchemical**

This source group classifies water that is converted into vapor or gas by being heated to the boiling point, and water vapor kept under pressure so as to supply energy for heating, cooking, or mechanical work.

**962\* Liquids**

This source group classifies water with temperature above the freezing point and at or below the boiling point, and liquids not elsewhere classified.

**9620 Liquids, unspecified****9621 Water****9629 Liquids, n.e.c.****98 Other sources, n.e.c.**

This code is used for sources not classified elsewhere in the source code structure.

*Blast of pressurized air*

*Cigarettes*

*Contact lens*

**99\* Nonclassifiable****9999 Nonclassifiable**

Use this code when the source that inflicted the injury is not known.

*Poor air quality, not otherwise specified*

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\* - Asterisks indicate division, major group, or group titles.