Product Identifier: Gold Scrap SDS ID: NFE-0110

* * *Section 1 - Identification* * *

Product Identifier: Gold Scrap

Chemical Family: Mixture

Recommended Use: Scrap metal usage. **Restriction on Use:** None known.

Manufacturer Information

The David J. Joseph Company 300 Pike Street Cincinnati, OH 45202 Non-Emergency Contact: Safety Department Non-Emergency Phone: 513-419-6200

Emergency Contact: DJJ

Emergency Phone: 513-562-1699

* * *Section 2 - Hazard(s) Identification* * *

Classification in accordance with 29 CFR 1910.1200.

Product is supplied as scrap metal consisting of gold alloy. This alloy is a non-combustible, non-reactive solid material. Solid material, as supplied, is not hazardous. Processing of this material may produce hazardous vapors, fumes, mists and dusts which are considered hazardous under 29 CFR 1910.1200 (Hazard Communication). Dust, particles or powder generated during processing would have the following classification:

Skin Corrosion / Irritation, Category 2

Eye Damage / Irritation, Category 2A

Sensitization - Respiratory, Category 1

Sensitization - Skin, Category 1

Germ Cell Mutagenicity, Category 2

Carcinogenicity, Category 2

Toxic to Reproduction, Category 1A

Specific Target Organ Toxicity - Single Exposure, Category 1 (respiratory system and digestive system)

Specific Target Organ Toxicity - Single Exposure, Category 3 (respiratory system)

Specific Target Organ Toxicity - Repeated Exposure, Category 1 (cardiovascular system, central nervous system,

hematopoietic system, immune system, kidneys, peripheral nervous system, lungs, nervous system, and respiratory system)

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER

Hazard Statement(s)

Causes skin irritation

Causes serious eye irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

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May cause an allergic skin reaction

Suspected of causing genetic defects

Suspected of causing cancer

May damage fertility or the unborn child

Causes damage to respiratory system and digestive system.

May cause respiratory irritation

Causes damage to cardiovascular system, central nervous system, hematopoietic system, immune system, kidneys, peripheral nerve system, lungs, nervous system, and respiratory system through prolonged or repeated exposure.

Precautionary Statement(s)

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, mist, fumes or vapors. Use only outdoors or in a well-ventilated area. Wear respiratory protection. Do not eat, drink, or smoke when using this product. Wear appropriate protective gloves/clothing and eye/face protection if contact is possible. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response

IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage

Store in a secure area.

Disposal

Dispose of material in accordance with all local, regional, national and international regulations.

Hazard(s) Not Otherwise Classified

Dust may present an explosion hazard if allowed to accumulate in an industrial or manufacturing environment. Coatings and oils applied to the product may enhance flammability.

* * *Section 3 - Composition / Information on Ingredients* * *

CAS	Component	Percent
7440-50-8	Copper	>1
7440-22-4	Silver	>1
7440-06-4	Platinum	>1
7440-05-3	Palladium	>1
7439-92-1	Lead	>1
7440-57-5	Gold	>1

Component Information/Information on Non-Hazardous Components

Processing of this material may produce hazardous vapors, fumes, mists and dusts which are considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

This data sheet is prepared as a guideline for typical uses of scrap materials. The user should be aware that the composition of the scrap can vary based upon the raw materials, processes used, and protective coatings that may have been applied to the original materials. The list of ingredients above are typical ingredients thought to be present in the scrap material. This list includes contaminants that may or may not be present. The percentages given vary from shipment to shipment and may not be entirely accurate for a given shipment.

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Protective coatings, including paints, lubricants, corrosion inhibitors, etc., may have been applied to the material before it came under the control of the recycler. These coatings may contain hazardous materials. Typical hazardous materials contained in these coatings include: lead, zinc, chromium, and cadmium. Some organic materials may also be present. The supplier (recycler) may have no specific knowledge of the particular contaminant. However, it is anticipated that the hazardous materials present in the coatings would generally represent less than 0.1% of the total material present. The health hazards presented by these contaminants would produce their greatest potential for exposure during processes such as melting, cutting, welding. These processes could generate metal fumes that might produce the health hazards identified in section 2 of this MSDS.

It is suggested that the user protect employees by utilizing engineering controls that reduce exposures to acceptable concentrations. Where engineering controls are not feasible, appropriate personal protective equipment should be utilized.

* * *Section 4 - First Aid Measures* * *

Description of Necessary Measures

Inhalation

If adverse effects occur during processing, remove to uncontaminated area. Get immediate medical attention.

Skin Contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use. Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. In case of mechanical abrasions and cuts, seek medical attention immediately.

Ingestion

Due to the physical nature of this material, ingestion is unlikely to occur. If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most Important Symptoms/Effects

Acute

Processing by-products: Symptoms/effects may include allergic reactions, respiratory tract irritation, skin irritation, eye irritation, respiratory system damage, and digestive disorders.

Delayed

Processing by-products: Symptoms/effects may include allergic reactions, mutagenic effects, cancer, hematologic and reproductive effects, cardiovascular system damage, central nervous system damage, immune system disorders, kidney damage, peripheral nervo damage, lung damage, nervous system damage, and respiratory system damage.

Indication of immediate Medical Attention and Special Treatment Needed

Treat symptomatically and supportively.

* * *Section 5 - Fire Fighting Measures* * *

Extinguishing Media

Media to use includes regular dry chemical and dry sand.

Unsuitable Extinguishing Media

Molten metal may react violently with water.

Specific Hazards Arising from the Chemical

Coatings and oils applied to the product may enhance flammability. Dust or fine particles may present a flammability hazard if allowed to accumulate in an industrial or manufacturing environment.

Hazardous Combustion Products

This product may release metal oxide fumes by thermal decomposition.

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Fire fighting measures

Fight fire with normal precautions from a reasonable distance. Cool materials with water spray until well after the fire is out.

Special Protective Equipment and Precautions for Firefighters

Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

* * *Section 6 - Accidental Release Measures* * *

Personal Precautions, Protective Equipment and Emergency Procedures

If dusts or particulates are generated, eliminate sources of ignition. Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Containment of this material should not be necessary. If dusts or particulates are generated, eliminate sources of ignition. Small pieces of this product may be collected with a broom and shovel. Collect spilled material in appropriate container for reuse or disposal.

* * *Section 7 - Handling and Storage* * *

Precautions for Safe Handling

Observe good hygiene and safety practices when handling this product. Processing of this material may produce hazardous vapors, fumes, mists, and dusts. Avoid inhaling dusts or fumes produced during product processing. Handle with adequate ventilation during processing. Wash thoroughly after handling.

Condition for Safe storage, Including any incompatibilities

Store in a secure area.

Incompatibility

Gold may react with aqua regia, mixtures containing chlorides, bromides, or iodides if they can generate nascent halogens, many oxidizing mixtures, especially those containing halogens, alkali cyanides, solutions of thiocyanates and double cyanides.

* * *Section 8 - Exposure Controls / Personal Protection* * *

Exposure Limits

Follow all applicable exposure limits. Keep formation of dusts, particulates and fumes to a minimum.

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Component Exposure Limits

Lead (7439-92-1)

ACGIH: 0.05 mg/m3 TWA

OSHA: 30 μg/m3 Action Level (See 29 CFR 1910.1025); 50 μg/m3 TWA (See 29 CFR

1910.1025)

OSHA: 50 μg/m3 TWA **NIOSH:** 0.050 mg/m3 TWA

Alberta: Designated substance - requires code of practice

0.05 mg/m3 TWA

British Columbia: IARC Category 2B - Possible Human Carcinogen; Adverse reproductive effect

0.05 mg/m3 TWA

Manitoba:0.05 mg/m3 TWANew Brunswick:0.05 mg/m3 TWANW Territories:0.15 mg/m3 TWA

0.45 mg/m3 STEL

Nova Scotia: 0.05 mg/m3 TWA Nunavut: 0.15 mg/m3 TWA

0.45 mg/m3 STEL Ontario: 0.05 mg/m3 TWA

0.05 mg/m3 TWA (designated substances regulation); 0.05 mg/m3 TWA (applies to

workplaces to which the designated substances regulation does not apply)

Quebec: 0.05 mg/m3 TWAEV

Saskatchewan: Present

0.05 mg/m3 TWA 0.15 mg/m3 STEL

Yukon: 0.15 mg/m3 TWA (dust and fume)

0.45 mg/m3 STEL (dust and fume)

Platinum (7440-06-4)

ACGIH: 1 mg/m3 TWA **OSHA:** 0.002 mg/m3 TWA **NIOSH:** 1 mg/m3 TWA **Alberta:** 1 mg/m3 TWA

British Columbia: 1 mg/m3 TWA

Manitoba: 1 mg/m3 TWA
New Brunswick: 1 mg/m3 TWA

NW Territories: 1 mg/m3 TWA

2 mg/m3 STEL

Nova Scotia: 1 mg/m3 TWA Nunavut: 1 mg/m3 TWA

2 mg/m3 STEL

Ontario: 1 mg/m3 TWA
Quebec: 1 mg/m3 TWAEV
Saskatchewan: 1 mg/m3 TWA

3 mg/m3 STEL

Silver (7440-22-4)

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ACGIH: 0.1 mg/m3 TWA (dust and fume)

OSHA: 0.01 mg/m3 TWA **NIOSH:** 0.01 mg/m3 TWA (dust)

Alberta: 0.1 mg/m3 TWA

British Columbia: 0.01 mg/m3 TWA

0.03 mg/m3 STEL

Manitoba: 0.1 mg/m3 TWA (dust and fume)

New Brunswick: 0.1 mg/m3 TWA
NW Territories: 0.1 mg/m3 TWA

0.3 mg/m3 STEL

Nova Scotia: 0.1 mg/m3 TWA (dust and fume)

Nunavut: 0.1 mg/m3 TWA

0.3 mg/m 3 STEL

Ontario: 0.1 mg/m3 TWA (dust and fume)

Quebec: 0.1 mg/m3 TWAEV **Saskatchewan:** 0.1 mg/m3 TWA

0.3 mg/m3 STEL

Yukon: 0.01 mg/m3 TWA

0.03 mg/m3 STEL

Copper (7440-50-8)

ACGIH: 0.2 mg/m3 TWA (fume)

OSHA: 0.1 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)
NIOSH: 1 mg/m3 TWA (dust and mist); 0.1 mg/m3 TWA (fume)
Alberta: 0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)

British Columbia: 1 mg/m3 TWA (dust and mist); 0.2 mg/m3 TWA (fume)

Manitoba: 0.2 mg/m3 TWA (fume)

New Brunswick: 0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist) **NW Territories:** 0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)

0.6 mg/m3 STEL (fume); 2 mg/m3 STEL (dust and mist)

Nova Scotia: 0.2 mg/m3 TWA (fume)

Nunavut: 0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)

0.6 mg/m3 STEL (fume); 2 mg/m3 STEL (dust and mist)

Ontario: 0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)

Quebec: 0.2 mg/m3 TWAEV (fume); 1 mg/m3 TWAEV (dust and mist)

Saskatchewan: 0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)

0.6 mg/m3 STEL (fume); 3 mg/m3 STEL (dust and mist)

Yukon: 0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)

0.2 mg/m3 STEL (fume); 2 mg/m3 STEL (dust and mist)

Appropriate Engineering Controls

For outdoor applications, special ventilation is not required under normal conditions of use. Under normal conditions of use, no special ventilation equipment is needed. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.

Individual Protection Measures, such as Personal Protective Equipment

Eyes/Face Protection

Eye protection not required under normal conditions. Wear appropriate eye protection if eye contact is possible.

Skin Protection

Wear gloves and other clothing as required to avoid contact.

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Respiratory Protection

Consult with a health and safety professional for specific respirators appropriate for your use. When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH approved respiratory protection must be provided. Where concentrations exceed exposure limits or airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate for the material and its components.

General Information

Use good industrial hygiene practices in handling this material. Eye wash fountain and emergency showers are recommended.

* * *Section 9 - Physical and Chemical Properties* * *

Appearance: Depends upon scrap Odor: Not available

composition, most often appears as a soft yellow

ductile metal.

Physical State: Solid pH: Not applicable

Melting /Freezing Point: 2000 °F (1100 °C) **Boiling Point:** 5100 °F (2800 °C)

Flash Point: Not applicable OSHA Flammability Class: Non-flammable

UFL: Not available LFL: Not available

Vapor Pressure:Not applicableVapor Density:Not applicableSpecific Gravity:Not availableSolubility (H2O):Insoluble

Auto Ignition: Not applicable

* * *Section 10 - Chemical Stability & Reactivity Information* * *

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous reaction

Will not occur.

Conditions to Avoid

Molten metal may react violently with water. Fine particles, dust or fumes may be flammable or explosive.

Incompatible Materials

Gold may react with aqua regia, mixtures containing chlorides, bromides, or iodides if they can generate nascent halogens, many oxidizing mixtures, especially those containing halogens, alkali cyanides, solutions of thiocyanates and double cyanides.

Hazardous Decomposition Products

Decomposition of this product may yield metallic oxides.

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* * *Section 11 - Toxicological Information * * *

Acute Dose Effects

No information available for the product. Operations which supply sufficient energy to the product (i.e. welding, high speed grinding or melting) can release dust or fumes which may make components of the product biologically available. Overexposure to copper fume and dust is known to cause metal fume fever, a flu-like illness generally lasting 24 hours or less including symptoms of nausea, chills, sweats, chest tightness, muscle aches and weakness. Chronic exposure to copper fume or dust can cause respiratory tract irritation, hemolytic anemia and allergic contact dermatitis. Other possible effects of copper overexposure include discoloration of skin or hair, and liver and kidney damage. Lead has been found to have toxic effects on both the central and peripheral nervous systems. Acute exposure to lead may cause acute encephalopathy which is accompanied by the symptoms of ataxis, coma, and convulsions. As toxicity progresses, symptoms of peripheral neuropathy can develop, as well as some cases of irreversible kidney damage. Silver can be harmful if inhaled, absorbed through the skin, or ingested. Symptoms may include gastrointestinal distress, pulmonary edema, convulsions and shock. Chronic overexposure to silver may cause argyria, a gray-blue pigmentation of the skin or organs, loss of strength, convulsive seizures, mild bronchitis, and renal and liver toxicities. Overexposure to platinum dusts may cause eye and respiratory irritation as well as allergic lung and skin sensitization reactions.

Component Analysis - LD50/LC50

Silver (7440-22-4)

Oral LD50 Rat >2000 mg/kg

Information on Likely Routes of Exposure

Processing by-products may cause the following.

Inhalation

May cause cancer. Dusts, vapors, and fumes generated during processing may irritate the respiratory system. Overexposure to processing fumes may cause metal fume fever which is an influenza like illness. Symptoms include headache, metallic taste in the mouth, cough, thirst, throat irritation, shortness of breath, fever, sweating and pain in the limbs. Severe acute overexposure or chronic overexposure to dusts or processing fumes may produce more serious toxicities including: siderosis, lung damage, weakness, anorexia, impairment of sleep and vision, personality changes, blood formation effects, nervous and circulatory system damage, kidney damage, and may pose a reproductive hazard.

Ingestion

Ingestion is not a likely route of exposure. May cause gastrointestinal disturbances, abdominal pain, fever, vomiting, and diarrhea. Ingestion may result in central nervous system effects including more serious toxicities including: shock, metabolic acidosis, decreased white blood cell count, neurological damage, cardiovascular shock, anemia, liver damage, renal failure, lethargy and coma..

Skin

May cause allergic skin reactions. Dust or powder may irritate the skin. This product may produce skin abrasions, lesions, or cuts.

Eye

Dust or powder may irritate eye tissue. Rubbing may cause abrasion of cornea.

Immediate Effects

Processing by-products: Symptoms/effects may include allergic reactions, respiratory tract irritation, skin irritation, eye irritation, respiratory system damage, and digestive disorders.

Delayed Effects

Processing by-products: Symptoms/effects may include allergic reactions, cancer, mutagenic effects, hematologic and reproductive effects, cardiovascular system damage, central nervous system damage, immune system disorders, kidney damage, liver damage, peripheral nerve damage, lung damage, nervous system damage, and respiratory system damage.

Medical conditions Aggravated by Exposures

No data available.

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Irritation/Corrosivity Data

Causes respiratory tract irritation, skin irritation, and eye irritation.

Respiratory Sensitizer

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Dermal Sensitization

May cause an allergic skin reaction

Carcinogenicity

Component Carcinogenicity

Lead (7439-92-1)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

OSHA: 30 μg/m3 Action Level (See 29 CFR 1910.1025); 50 μg/m3 TWA (See 29 CFR 1910.1025)

Present (Select Carcinogen)

NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)

IARC: Monograph 87 [2006] (evaluates inorganic lead compounds as Group 2A and organic lead

compounds as Group 3) (Group 2A (Probably carcinogenic to humans))

Mutagenicity

Contains component(s) which may cause mutagenic effects. Exposure to lead has been reported to cause chromosome aberrations in humans.

Reproductive Toxicity

Available data characterizes components of this product as reproductive hazards.

Specific Target Organ Toxicity - Single Exposure

respiratory system digestive system

Specific Target Organ Toxicity - Repeated Exposure

cardiovascular system central nervous system hematopoietic system immune system kidneys peripheral nerve system lungs nervous system respiratory system

Aspiration Hazard

No information available for the product.

Other Toxicological Information

Under normal conditions of handling, the likelihood of inhaling or ingesting amounts necessary for these effects to occur is very small.

* * *Section 12 - Ecological Information* * *

Ecotoxicity

Processing by-products: May be harmful to aquatic life.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Lead (7439-92-1)

Duration/Test/Species Concentration/Conditions/Notes

96 Hr LC50 Cyprinus carpio 0.44 mg/L [semi-static] 96 Hr LC50 Oncorhynchus mykiss 1.17 mg/L [flow-through]

96 Hr LC50 Oncorhynchus mykiss 1.32 mg/L [static]

48 Hr EC50 water flea: 600 µg/L

Silver (7440-22-4)

Duration/Test/SpeciesConcentration/Conditions/Notes96 Hr LC50 Pimephales promelas0.00155 - 0.00293 mg/L [static]96 Hr LC50 Oncorhynchus mykiss0.0062 mg/L [flow-through]

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96 Hr LC50 Lepomis macrochirus

0.064 mg/L [static]

48 Hr EC50 Daphnia magna: 0.00024 mg/L [Static]

Copper (7440-50-8)

Duration/Test/Species	Concentration/Conditions/Notes
96 Hr LC50 Pimephales promelas	0.0068 - 0.0156 mg/L

96 Hr LC50 Pimephales promelas <0.3 mg/L [static]
96 Hr LC50 Pimephales promelas 0.2 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss 0.052 mg/L [flow-through]

96 Hr LC50 Lepomis macrochirus1.25 mg/L [static]96 Hr LC50 Cyprinus carpio0.3 mg/L [semi-static]96 Hr LC50 Cyprinus carpio0.8 mg/L [static]

96 Hr LC50 Poecilia reticulata 0.112 mg/L [flow-through]

72 Hr EC50 Pseudokirchneriella subcapitata: 0.0426 - 0.0535 mg/L [static]; 96 Hr EC50 Pseudokirchneriella subcapitata: 0.031 - 0.054 mg/L [static]

48 Hr EC50 Daphnia magna: 0.03 mg/L [Static]

Persistence & Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility

No information available for the product.

* * *Section 13 - Disposal Considerations* * *

Disposal Methods

Byproducts and residues from this product may be reprocessed or recycled. Upon disposal, collected dusts and other similar wastes could contain a constituent identified as a hazardous waste. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

US EPA Waste Number & Descriptions

Component Waste Numbers

Lead (7439-92-1)

RCRA: 5.0 mg/L regulatory level

Silver (7440-22-4)

RCRA: 5.0 mg/L regulatory level

Disposal of Contamiated Packaging

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

* * *Section 14 - Transportation Information* * *

US DOT Information

Certain forms of this material (i.e. powders, borings, shavings, turnings, cuttings, dross, etc.) may be subject to U.S. DOT hazardous material shipping requirements. If the products are shipped in quantities which exceed the reportable quantity (RQ) for individual components, they may also meet the requirements of DOT hazardous materials.

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DOT Reportable Quantities

Lead (7439-92-1)

10 lbs RQ (The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 μ m (0.004 inches).); 4.54 kg RQ (The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 μ m (0.004 inches).)

Silver (7440-22-4)

1000 lbs RQ (The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 μ m (0.004 inches).); 454 kg RQ (The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 μ m (0.004 inches).)

Copper (7440-50-8)

5000 lbs RQ (The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 μ m (0.004 inches).); 2270 kg RQ (The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 μ m (0.004 inches).)

TDG Information

Not regulated as a hazardous material.

Component Marine Pollutants

This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants.

Component	CAS#	
Copper	7440-50-8	DOT regulated severe marine
		pollutant (powder)

* * *Section 15 - Regulatory Information* * *

U.S. Federal Regulations

Processing of this material may produce hazardous vapors, fumes, mists and dusts which are considered hazardous under 29 CFR 1910.1200 (Hazard Communication). The following component analysis applies only to those facilities that are required to report under applicable regulations.

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U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Lead (7439-92-1)

SARA 313: 0.1 % Supplier notification limit; 0.1 % de minimis concentration (when contained in stainless

steel, brass, or bronze)

CERCLA: 10 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is $>100\,\mu m$); 4.54 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is

 $>100 \mu m)$

Silver (7440-22-4)

SARA 313: 1.0 % de minimis concentration

CERCLA: 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the

diameter of the pieces of the solid metal released is $>\!100\,\mu m$); 454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid

metal released is >100 µm)

Copper (7440-50-8)

SARA 313: 1.0 % de minimis concentration

CERCLA: 5000 lb final RQ (no reporting of releases of this hazardous substance is required if the

diameter of the pieces of the solid metal released is $>\!100\,\mu m$); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid

metal released is >100 µm)

Component Marine Pollutants

This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants.

Component	CAS#	
Copper	7440-50-8	DOT regulated severe marine
		pollutant (powder)

SARA 311/312 Hazardous Categories (40 CFR 370 Subparts B and C)

Acute Health Yes (dust/fumes) Chronic Health Yes (dust/fumes) Fire No Pressure No Reactive No

U.S. State Regulations

Other state regulations may apply. Check individual state requirements.

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS#	CA	FL	MA	MN	NJ	PA
Lead	7439-92-1	Yes	No	Yes	Yes	Yes	Yes
Palladium	7440-05-3	Yes	No	No	No	No	No
Platinum	7440-06-4	Yes	No	Yes	Yes	Yes	Yes
Silver	7440-22-4	Yes	No	Yes	Yes	Yes	Yes
Copper	7440-50-8	Yes	No	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Product Identifier: Gold Scrap SDS ID: NFE-0110

Canada Regulation

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Canadian WHMIS Information

WHMIS CLASSIFICATION: D1A. D2A. D2B.

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Lead (7439-92-1)

0.1 %

Platinum (7440-06-4)

1 %

Silver (7440-22-4)

1 %

Copper (7440-50-8)

1 %

Additional Regulatory Information

This product is listed on the U.S. EPA TSCA Inventory.

Component Analysis - Inventory

Component	CAS#	TSCA	CAN
Lead	7439-92-1	Yes	DSL
Palladium	7440-05-3	Yes	DSL
Platinum	7440-06-4	Yes	DSL
Silver	7440-22-4	Yes	DSL
Copper	7440-50-8	Yes	DSL
Gold	7440-57-5	Yes	DSL

* * *Section 16 - Other Information* * *

Summary of Changes

Updated: 5/12/2015

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; TLV = Threshold Limit Value; NFPA = National Fire Protection Association; HMIS = High Efficiency Particulate Air; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act.

Other Information

MSDS History:

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

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Revision 2/Regulatory Update: 7/19/2002 Revision 3/Regulatory Update: 10/6/2005 Revision 4/Regulatory Update: 8/7/2008 Revision 5/Regulatory Update: 1/3/2011 Revision 6 / Regulatory Update: 11/9/2011

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