

OSTER • PEWTER



SAFETY DATA SHEET

SECTION I – Chemical Product and Company Identification

Product name: Pewter
Supplier: Callico Metals, Inc. d/b/a Oster Pewter
512 Old Baptist Road
North Kingstown, RI 02852
USA
Product class: Pewter
Material uses:
Information Alloy
telephone number: (401) 398-8238
Emergency
telephone number: (401) 595-4618

SECTION II – Hazards identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product:

None needed according to classification criteria.

Label elements

Pictogram:

None needed according to classification criteria.

Signal Word:

None needed according to classification criteria.

Hazard Statement:

None needed according to classification criteria.

Other Hazards:

This product is present in a massive form as an alloy. It does not present the same hazards when the individual components are in their powdered forms. The materials present in this product in their powdered forms present aquatic toxicity to the environment, pyrophoricity, flammability, self-heating capabilities, carcinogenicity, water reactivity, and acute toxicity. When processed or where dust is generated a combustible dust hazard may be present. Avoid generating dust, generating sparks, ignition sources, and take all precautions.

Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

Under normal use and handling of the solid form of this material there are few health hazards. Cutting, welding, melting, grinding etc. of these materials will produce dust, fume or particulate containing the component elements of these materials. Exposure to the dust, fume or particulate of these materials may present significant health hazards. Exposure to dust or fume may cause irritation of the eyes, skin and respiratory tract. Fine particulates dispersed in air may present an explosion hazard.

OSHA/HCS status: This material is not considered hazardous by OSHA Hazard Communication Standard 29 CFR 1910.1200

SECTION III – Composition/Information on Ingredients

<u>Components</u>	<u>CAS number</u>	<u>EINECS number</u>	<u>% by Weight</u>
Tin	7440-31-5	231-141-8	88-99
Copper	7440-50-8	231-159-6	1-11
Antimony	7440-36-0	231-146-5	1-11

SECTION IV – FIRST AID MEASURES
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Eye Contact:

In case of contact, flush eyes with plenty of lukewarm water. Use fingers to ensure that the eyelids are separated and that the eye is being irrigated. Get medical attention if irritation develops.

Skin Contact:

In case of skin contact, wash affected areas with soap and water. Call physician if irritation develops or persists.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion:

If ingested, **do not induce vomiting** unless directed to do so by medical personnel. Get medical attention.

SECTION V – FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Use extinguishing media appropriate for surrounding fire. Dry sand; Class D Extinguishing Agent (for metal powder fires).

Special Fire Fighting Procedures:

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

Unusual Fire/Explosion Hazards:

In molten state: reacts violently with water (moisture).

Hazardous Thermal Decomposition Products:

In case of fire, may produce hazardous decomposition products such as Oxides of tin, nickel, copper, chromium, silicone, carbon, lead, aluminum and cobalt. Tin compounds and antimony oxide.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures:

Contain spill. If spilled in an enclosed area ventilate. Wear proper personal protective clothing and equipment. Do not flush liquid in public sewer, water systems or surface waters. Recover as much as possible and absorb remainder with inert material. Place into labeled containers and store in safe locations for proper disposal. Wash spilled areas with soap and water.

Methods for Cleaning Up:

For particulates and dust: Avoid actions that cause dust to become airborne during clean-up such as dry sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up.

SECTION VII – HANDLING AND STORAGE

Handling:

Avoid eye contact, repeated or prolonged skin contact or inhalation of aerosol, mist or dust. Wash thoroughly after handling. Use in well ventilated areas.

Storage:

Keep containers closed when not in use. Do not store in open, unlabeled or mislabeled containers.

SECTION VIII – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH-TWA	ACGIH-STEL	OSHA-TWA	OSHA-STEL
Tin	2 mg/m ³	N/A	2 mg/m ³	N/A
Copper	1 mg/m ³	N/A	1 mg/m ³	N/A
Antimony	0.5 mg/m ³	N/A	0.5 mg/m ³	N/A

Engineering Controls:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal Protection

Eyes:

Chemical safety goggles or safety glasses with side-shields. Chemical safety goggles/safety glasses

Skin:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory:

Use a properly fitted, air-purifying or air fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and safe working limits of the known respirator.

Hand:

Permeation resistant gloves such as Nitrile rubber gloves. If material is hot, wear thermally resistant protective gloves.

Additional Protective Measures:

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available. Store separate from food products.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid
Appearance:	Metallic
Odor:	Odorless
Solubility in Water:	Negligible
PH:	N/A
Boiling Range:	N/A
Flash Point:	N/A
Evaporation Rate:	Slower than Ether
Vapor Density:	N/A
% Volatile by Weight:	0 %
Specific Gravity:	7.5

SECTION X – STABILITY AND REACTIVITY

Stability:

This product is stable under normal storage and use conditions.

Hazardous Polymerization:

Will not occur.

Incompatibility:

Chlorine, halogens, bromine, trifluoride, strong acids, strong oxidizing agents, sulfur, alkali, and alkaline metals.

Hazardous Decomposition Products:

Oxides of iron and carbon. Organic acid vapors. Chromium compounds. Tin compounds. Antimony oxide.

SECTION XI – TOXICOLOGICAL INFORMATION

Toxicity Data for Pewter

Toxicity Note:

No data available for this product.

Toxicity Data for Tin:

Component:

7440-31-5:

Acute Oral Toxicity:

Type of value: LD50

No data available

Acute Inhalation Toxicity:

Type of value: LC50

No data available

Acute Dermal Toxicity:

Type of value: LD50

No data available

Sensitization:

Component:

7440-31-5:

Assessment of sensitization: No evidence of a sensitization effect.

Aspiration Hazard:

Component:

7440-31-5:

No aspiration hazard expected.

Chronic Toxicity/Effects:

Genetic toxicity:

Component:

7440-31-5:

Assessment of mutagenicity: No evidence of a mutagenic effect.

Carcinogenicity:

Component:

7440-31-5:

Assessment of carcinogenicity: No evidence of a carcinogenic effect.

Reproductive toxicity:

Component:

7440-31-5:

Assessment of reproduction toxicity: No evidence of a negative reproductive effect.

Teratogenicity:

Component:

7440-31-5:

Assessment of teratogenicity: No evidence of a teratogenic effect (Birth defect).

Target Organ Effects:

Component:

7440-31-5:

Acute: None

Chronic: None

Toxicity Data for Copper:

Component:

7440-50-8:

Acute Oral Toxicity:

Type of value: LD50

No data available

Acute Inhalation Toxicity:

Type of value: LC50

No data available

Acute Dermal Toxicity:

Type of value: LD50

No data available

Irritation/corrosion:

Component:

7440-50-8:

Skin Irritation:

Not Classified.

Eye Irritation:

Not Classified.

Sensitization:

Component:

7440-50-8:

Assessment of sensitization: Not classified.

Aspiration Hazard:

Component:

7440-50-8:

Not classified.

Chronic Toxicity/Effects:

Genetic toxicity:

Component:

7440-50-8:

Assessment of mutagenicity: Not classified.

Carcinogenicity:

Component:

7440-50-8:

Assessment of carcinogenicity: Not classified.

Reproductive toxicity:

Component:

7440-50-8:

Assessment of reproduction toxicity: Not classified.

Teratogenicity:

Component:

7440-31-5:

Assessment of teratogenicity: Not classified.

Target Organ Effects:

Component:

7440-50-8:

Acute: None

Chronic Symptoms:

Component:

7440-50-8:

In massive form, no hazard exists. If physically altered to present slivers, ribbons, dusts or fumes from molten material: Overexposure to fumes may cause metal fume fever (chills, muscle aches, nausea, fever, dry throat, cough, weakness, lassitude); metallic or sweet taste; discoloration of skin and hair. Tissue damage of mucous membranes may follow chronic dust exposure.

Toxicity Data for Antimony:

Component:

7440-36-0:

Acute Oral Toxicity:

Type of value: LD50

No data available

Acute Inhalation Toxicity:

Type of value: LC50

No data available

Acute Dermal Toxicity:

Type of value: LD50

No data available

Irritation/corrosion:

Component:

7440-36-0:

Skin Irritation:

No data available

Eye Irritation:
No data available

Sensitization:

Component:

7440-36-0:

Assessment of sensitization: No data available

Aspiration Hazard:

Component:

7440-36-0:

Not classified.

Chronic Toxicity/Effects:

Genetic toxicity:

Component:

7440-36-0:

Assessment of mutagenicity: No data available

Carcinogenicity:

Component:

7440-36-0:

Carcinogenicity – Rat – Inhalation

Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors

- | | |
|--------------|---|
| IARC | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| ACGIH | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. |
| OSHA | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |
| NTP | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |

Reproductive toxicity:

Component:

7440-36-0:

Assessment of reproduction toxicity: No data available.

Teratogenicity:

Component:

7440-36-0:

Assessment of teratogenicity: Not classified.

Target Organ Effects:

Component:

7440-50-8:

Acute: None

Chronic: None

SECTION XII – ECOLOGICAL INFORMATION

Ecological Data for Pewter

Additional Ecotoxicological Remarks:

No data available for this product.

Ecological Data for Tin:

Component:

7440-31-5:

This material is not expected to be harmful to the ecology.

Persistence and degradability:

Component:

7440-31-5:

Assessment of persistence and degradability: Not classified.

Bioaccumulation potential:

Component:

7440-31-5:

Assessment bioaccumulation potential: Not classified.

Mobility in soil:

Component:

7440-31-5:

Assessment of mobility: Not classified.

Ecological Data for Copper:

Component:

7440-50-8:

Toxicity to fish:

LC50 (96 h) <=0.0068 (0.0068-0.0156) mg/l

Species: Pimephales promelas

Aquatic invertebrates:

EC50 (48 h) 0.03 mg/l

Species: Daphnia magna (Static)

Persistence and degradability:

Component:

7440-50-8:

Assessment of persistence and degradability: Not classified.

Bioaccumulation potential:

Component:

7440-50-8:

Assessment bioaccumulation potential: Not classified.

Mobility in soil:

Component:

7440-50-8:

Assessment of mobility: Not classified.

Ecological Data for Antimony:

Component:

7440-36-0:

Toxicity to fish: Mortality NOEC-Cyprinodon Variegatus (sheepshead minnow) - 6.2 mg/l – 96.0 h
LC50 - Cyprinodon Variegatus (sheepshead minnow) – 6.2 – 8.3 mg/l – 96 h

Persistence and degradability:

Component:

7440-36-0:

Assessment of persistence and degradability: Not classified.

Bioaccumulation potential:

Component:

7440-36-0:

Assessment bioaccumulation potential: Not classified.

Mobility in soil:

Component:

7440-36-0:

Assessment of mobility: Not classified.

Results of PBT and vPvB assessment:

Component:

7440-36-0:

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects:

Component:

7440-36-0:

Toxic to aquatic life with long lasting effects.

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose of in accordance with Federal, State and Local regulations.

SECTION XIV – TRANSPORTATION INFORMATION

Land transport (DOT):

Non-regulated

Sea transport (IMDG):

Non-regulated

Air transport (ICAO/IATA):

Non-regulated

SECTION XV – REGULATORY INFORMATION

SARA Title III Section 313:

This product contains the following substance(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (40 CFR 372).

Tin 7440-31-5
Copper 7440-50-8

SARA Title III 312 Hazard Category (40 CFR 311/312):

Acute Health:	Yes	Release of Pressure:	No
Chronic Health:	Yes	Reactive:	No
Fire:	No		

US Federal Regulations (TSCA):

This product is listed on the U.S. Toxic Substance Control Act inventory of chemicals or is otherwise compliant with TSCA regulations.

SECTION XVI – OTHER INFORMATION
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HMIS Rating:

Health: 2
Flammability: 0
Reactivity: 0
PPE: B

Date of Printing: 12-28-15

Contact person: EHS Department

Telephone: (401) 398-8238

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