



MATERIAL SAFETY DATA SHEET

MSDS Number: 1601E

Section 1

PRODUCT AND COMPANY IDENTIFICATION

Trade Name: OATEY SILVER LEAD FREE PLUMBING WIRE SOLDER
OATEY SAFE-FLO LEAD FREE PLUMBING WIRE SOLDER

Product Nos.: 23000, 23001, 23002, 29030, 29024, 29025, 53061, 53180, 53062, 53188, 53064, 53195, 50683, 50684, 50691, 50692, 53013, 53186, 48311, 48312, 48313, 48318

Product Use: Solder for copper water lines

Formula: See Section 3

Synonyms: Solder

Firm Name & Address: Oatey Company 4700 West 160th Street, Cleveland, Ohio 44135
www.oatey.com

Firm Phone No: (216) 267-7100

Emergency Phone Nos.: For Emergency First Aid call 1-877-740-5015. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1-703-527-3887.

Prepared by: Technical Department

Preparation Date: 04/07/13

Section 2 HAZARDS IDENTIFICATION

Emergency Overview:

Silver-gray wire metal. The fumes may be hazardous during soldering operations. Fumes can cause eye irritation and may cause headache and respiratory system irritation. Ingestion of metal alloys may be harmful.

Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENTS: | %wt/wt : | CAS NUMBER: | ACGIH TLV TWA: | OSHA PEL TWA |
|--------------|-----------|-------------|------------------------------------|------------------------------------|
| Tin | 60 - 100% | 7440-31-5 | 2 mg/m3 | 2 mg/m3 |
| Copper | 1 - 5% | 7440-50-8 | 0.2 mg/m3 (fume) 1 mg/m3 (dust) | 0.1 mg/m3 (fume) 1 mg/m3 (dust) |
| Bismuth | 1 - 5% | 7440-69-9 | None | None |
| Silver | 1 - 5% | 7440-22-4 | 0.1 mg/m3 | 0.1 mg/m3 |

Section 4 FIRST AID MEASURES

Skin: If irritation arises, wash thoroughly with soap and water. Seek medical attention if irritation persists.

Eyes: If material gets into eyes, immediately flush eyes with water while holding eyelids open until material is removed. If irritation persists, seek medical attention.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Call a poison control center or physician immediately.

Ingestion: **DO NOT INDUCE VOMITING.** Ingestion is not a likely route of entry. Never give anything by mouth to a person who is unconscious or drowsy. Get medical attention by calling a Poison Control Center, or hospital emergency room.

| | |
|-------------------------------------|---|
| Section 5 | FIRE FIGHTING MEASURES |
| Flashpoint / Method: | Not applicable |
| Flammability: | LEL = Not applicable, UEL = Not applicable |
| Extinguishing | Use appropriate means of extinguishing surrounding fire. |
| Media: | |
| Special Fire Fighting Procedure: | Not applicable |
| Unusual Fire And Explosion Hazards: | None known |
| Hazardous Decomposition Products: | Material will not decompose under normal conditions. If overheated, oxides of tin, bismuth, copper and silver may result. |
| Section 6 | ACCIDENTAL RELEASE MEASURES |
| Spill or Leak Procedures: | Collect solid and place in properly labeled containers for recycle or disposal. |
| Section 7 | HANDLING AND STORAGE |
| Handling: | Avoid inhalation of fumes, vapors or dust. Keep away from children. Wash thoroughly after handling before eating, drinking, or smoking. |
| Storage: | Store in a cool, dry place away from heat or open flame. |
| Other: | None |
| Section 8 | EXPOSURE CONTROLS/PERSONAL PROTECTION |
| Ventilation: | Good general ventilation (equivalent to outdoors) should be adequate for normal use. For operations where the TLV may be exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits. |
| Respiratory Protection: | For operations where the TLV may be exceeded, a NIOSH approved organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. |
| Skin Protection: | Wear gloves and long sleeves to avoid direct contact with skin. |
| Eye Protection: | Safety glasses with side shields or safety goggles. |
| Other: | Eye wash and safety shower should be available. |
| Section 9 | PHYSICAL AND CHEMICAL PROPERTIES |
| Boiling Point: | Not determined |
| Melting Point: | 415 to 455 Degrees F (213 to 235 Degrees C) |
| Vapor Pressure: | Not determined |
| Vapor Density: | (Air = 1) Greater than 1 |
| Volatile Components: | None |
| Solubility In Water: | Negligible |
| pH: | Not applicable |
| Specific Gravity: | 9 to 11 |
| Evaporation Rate: | Not applicable |
| Appearance: | Silver-gray wire metal |
| Odor: | None |
| Will Dissolve In: | Not applicable |
| Material Is: | Solid |

Section 10 STABILITY AND REACTIVITY

Stability: Stable.
Conditions To Do not heat over 480 degrees F (250 degrees C).
Avoid:
Hazardous If overheated, oxides of tin, bismuth, copper and silver.
Decomposition
Products:
Incompatibility/ None.
Materials To
Avoid:
Hazardous Will not occur.
Polymerization:

Section 11 TOXICOLOGICAL INFORMATION

Inhalation: Fumes from soldering operations may be irritating to the respiratory system. Prolonged exposure to fumes may cause stannosis, a mild benign pneumoconiosis. Repeated inhalation of fumes may cause occupational asthma. Symptoms may be delayed.
Skin: Fumes may cause irritation.
Eye: Fumes may cause irritation.
Ingestion: Ingestion may cause abdominal pain, nausea, vomiting, diarrhea, gastroenteritis, or internal cuts. Long term chronic ingestion may damage the liver, kidneys, nervous system and gastrointestinal system.
Toxicity Data: No data available.
Sensitization: None of the components are known to cause sensitization.
Carcinogenicity: None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA.

Mutagenicity: None of the components have been found to be mutagenic.
Reproductive None of the components are known to cause adverse reproductive effects.
Toxicity:
Medical Persons with pre-existing skin, lung, kidney or liver disorders may be at increased risk from exposure to the fumes of this product.
Conditions
Aggravated By
Exposure:

Section 12 ECOLOGICAL INFORMATION

No data available. Keep out of waterways.

Section 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with federal, state, and local regulations. It is the responsibility of the end-user to determine at the time of disposal of the product.
RCRA Hazardous Waste None
Number:
EPA Hazardous Waste None
ID Number:
EPA Hazard Waste None.
Number:

Section 14 TRANSPORT INFORMATION

DOT
UN/NA Number: None
Proper Shipping Name: Not regulated
Hazard Class: None
Packing Group: None
Hazard Labels: None
IMDG

UN Number: None
Proper Shipping Name: Not regulated
Hazard Class: None
Packing Group: None
Label: None

2008 North American Emergency Response Guidebook Number: Not applicable

Section 15 REGULATORY INFORMATION

Hazard Category for Acute and chronic health hazards.
Section 311/312:

Section 302 This product does not contain chemicals regulated under SARA Section 302.
Extremely Hazardous
Substances (TPQ):
Section 313 Toxic This product contains the following chemicals subject to SARA Title III
Chemicals: Section 313 Reporting requirements:

| Chemical | CAS # | % wt |
|----------|-----------|--------|
| Copper | 7440-50-8 | 1 - 5% |
| Silver | 7440-22-4 | 1 - 5% |

CERCLA 103 This product contains no chemicals subject to CERCLA reporting.
Reportable
Quantity:

California This product does not contain any chemicals subject to California
Proposition 65: Proposition 65 regulations.

TSCA Inventory All of the components of this product are listed on the TSCA inventory.
Canadian WHIMS Not a controlled product.
Classification: This product has been classified in accordance with the hazard criteria
of the Controlled Products Regulations (CPR) and the MSDS contains all
the information required by the CPR.

Section 16 OTHER INFORMATION

NFPA and HMIS:
NFPA Hazard Signal: Health: 1 Flammability: 0 Reactivity: 0 Special: None
HMIS Hazard Signal: Health: 1 Flammability: 0 Reactivity: 0 PPE: B

Disclaimer:
The information herein has been compiled from sources believed to be reliable, up-to-date, and
is accurate to the best of our knowledge. However, we cannot give any guarantees regarding
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