

**MATERIAL SAFETY DATA SHEET**

**SECTION 1 PRODUCT AND COMPANY IDENTIFICATION**

Trade Name: OATEY SOLID WIRE SOLDER  
Product Use: General purpose solder  
Formula: See Section 2  
Synonyms: Leaded solder  
Firm Name & Mailing Address: OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland, Ohio 44135, U.S.A. <http://www.oatey.com>  
Oatey Phone Number: (216) 267-7100 or (800) 321-9532  
Emergency Phone Numbers: For Emergency First Aid call 1-303-623-5716 COLLECT. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1-703-527-3887.  
Prepared By: Corporate Director - Safety and Environmental Compliance  
Preparation Date: July 15, 2005

**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

<u>INGREDIENTS:</u>	<u>% wt/wt:</u>	<u>CAS NUMBER:</u>	<u>ACGIH TLV TWA:</u>	<u>OSHA PEL TWA:</u>
Tin	30% - 60%	7440-31-5	2 mg/m3	2 mg/m3
Lead	30% - 60%	7439-92-1	0.05 mg/m3	0.05 mg/m3

**SECTION 3 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. Chronic inhalation of heated lead fumes causes brain, liver, or kidney damage. Lead is a reproductive toxin and a possible cancer hazard. Ingestion of metal alloys may be harmful.

OSHA Hazard Classification: Harmful if swallowed or inhaled. Organ effects. Fumes may be irritating.

**SECTION 4 FIRST AID MEASURES**

CALL 1-303-623-5716 COLLECT

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: Not applicable  
Procedure:  
Unusual Fire and Explosion: None known  
Hazards:  
Hazardous Decomposition: Material will not decompose under normal conditions. If overheated, oxides of tin and lead may result.  
Products:

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Spill or Leak: Collect solid and place in properly labeled containers for recycle or disposal.  
Procedures:

**SECTION 7 HANDLING AND STORAGE**

Handling: Avoid inhalation of fumes and vapors. 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 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 sideshields or safety goggles.  
Other: Eye wash and safety shower should be available.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: Not determined  
Melting Point: 361 to 421 Degrees F (183 to 216 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 11.5  
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 Avoid: Do not heat over 480 Degrees F (250 Degrees C).  
Hazardous  
Decomposition: If overheated, oxides of tin and lead.  
Products:  
Incompatibility/ Strong acids and strong oxidizing agents.  
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.  
Toxicity Data: No data available  
Sensitization: None of the components are known to cause sensitization.  
Carcinogenicity: Lead is listed as an IARC Group 2B carcinogen (possibly carcinogenic to humans). This classification is based primarily on the carcinogenicity of certain soluble lead salts in lab animals. Neither lead nor its insoluble salts appear to be carcinogenic to humans or lab animals. ACGIH has classified lead as an A3 carcinogen, Confirmed Animal Carcinogen with Unknown Relevance to Humans.  
Mutagenicity: None of the components have been found to be mutagenic.  
Reproductive Toxicity: Lead causes reproductive harm in males and females. It exhibits embryotoxicity in animals.  
Medical Conditions Aggravated By Exposure: Persons with pre-existing skin, lung, kidney or liver disorders may be at increased risk from exposure to the fumes of this product.

**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 Number: None  
EPA Hazardous Waste ID Number: D008  
EPA Hazard Waste Class: Toxic waste

**SECTION 14 TRANSPORT INFORMATION**

DOT

Proper Shipping Name: Not regulated unless containing more than 10 lbs. lead, then: Environmentally Hazardous Substance, Solid, n.o.s. (contains lead)  
Hazard Class/Packing Group: Class 9  
UN/NA Number: UN3077  
Hazard Labels: 9 - Miscellaneous

IMDG

Proper Shipping Name: Not regulated  
Hazard Class/Packing Group: None  
UN Number: None  
Label: None  
2004 North American Emergency Response Guidebook Number: 171

**SECTION 15 REGULATORY INFORMATION**

Hazard Category for Section 311/312: Chronic health hazards.

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

<u>Chemical</u>	<u>CAS #</u>	<u>% wt</u>
Lead	7439-92-1	30 - 60%

CERCLA 103 Reportable Quantity: This product contains the following chemical subject to CERCLA reporting:

<u>Chemical</u>	<u>RQ, lbs.</u>
Lead	10

California Proposition 65: Lead is listed by the state of California as known to cause cancer and birth defects, or other reproductive harm. If this product is further manufactured, processed or repackaged, notification must be clearly communicated for occupational exposure through MSDS's and labels and for consumers by a conspicuous label or in-store display.

TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

Canadian WHMIS Classification: D2A - Materials Causing Other Toxic Effects - Very Toxic

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, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.