# **Oatey**®

# SAFETY DATA SHEET

# 1. Identification

Product identifier Oatey 97/3 Lead Free Plumbing Wire Solder

Other means of identification

Product code 20973

**Recommended use** Joining copper pipe and tubing.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Oatey Co.

Address 4700 West 160th St.
Cleveland, OH 44135

Telephone 216-267-7100 E-mail info@oatey.com

Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015

Contact person MSDS Coordinator

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

PreventionNot applicable.ResponseNot applicable.StorageNot applicable.DisposalNot applicable.

Hazard(s) not otherwise

classified (HNOC)

Hot or molten material may produce thermal burns.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Tin	7440-31-5	96.5
Copper	7440-50-8	3.5

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

4. First-aid measures

**Inhalation** If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if

cough or other symptoms develop.

Oatey 97/3 Lead Free Plumbing Wire Solder 949938 Version #: 01 Revision date: - Issue date: 27-June-2019 Skin contact If burned by contact with hot material, cool molten material adhering to skin as quickly as possible

with water, and see a physician for removal of adhering material and treatment of burn. Contact with dust: Remove contaminated clothes and rinse skin thoroughly with water for at least 15

minutes. If skin rash or an allergic skin reaction develops, get medical attention.

Eye contact If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention

immediately. Contact with dust: Rinse immediately with plenty of water for at least 15 minutes. Remove any contact lenses. Get medical attention if irritation develops or persists.

Ingestion Rinse mouth thoroughly if dust is ingested. Get medical attention if symptoms occur.

Elevated temperatures or mechanical action may form dust and fumes which may be irritating to Most important

the eye, mucous membranes and respiratory tract. Contact with molten material may cause symptoms/effects, acute and delayed

thermal burns.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Exposure may aggravate pre-existing respiratory disorders. Symptoms may

be delayed.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

# 5. Fire-fighting measures

Use fire-extinguishing media appropriate for surrounding materials. Suitable extinguishing media

Unsuitable extinguishing media

Do not use water on molten metal.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed such as: Fumes of metal oxides.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Use water spray to cool unopened containers.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials. Solid metal is not flammable; however, finely divided metallic dust or powder may form an explosive mixture with air.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Massive, solid metal: Pick up and arrange disposal without creating dust. Dust: Collect dust or particulates using a vacuum cleaner with a HEPA filter.

**Environmental precautions** 

Recover and recycle, if practical. For waste disposal, see section 13 of the SDS. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

#### 7. Handling and storage

Precautions for safe handling

Wear appropriate personal protective equipment (See Section 8). Keep formation of airborne dusts to a minimum. Ensure adequate ventilation. Avoid inhalation of dust and fumes. Avoid contact with hot material. Do not eat, drink or smoke when using the product. Wash thoroughly after handling.

Any surface that comes in contact with molten metal must be preheated or specially coated and rust free. Inadvertent contaminants to product such as moisture, ice, snow, grease, or oil can cause an explosion when charged to a molten metal bath or metal furnace (preheating metal will remove moisture from product).

Conditions for safe storage, including any incompatibilities Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of reach of children. Store away from incompatible materials (See Section 10).

2 mg/m3

# 8. Exposure controls/personal protection

#### Occupational exposure limits

Tin (CAS 7440-31-5)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)				
Components	Туре	Value	Form	
Copper (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.	
		0.1 mg/m3	Fume.	

PEL

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Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Tin (CAS 7440-31-5)	TWA	2 mg/m3	
US. NIOSH: Pocket Guide to Cher Components	mical Hazards Type	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to controls maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Wear a face shield when working with molten

material.

Skin protection

When handling hot material, use heat resistant gloves. Hand protection

Skin protection

Other For molten product, use any type rubber thermal insulating gloves and other clothing as necessary

to protect from thermal burns.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Solid. **Physical state** Wire. **Form** Silver. Color

Odor Not available. **Odor threshold** Not available. Not available.

430 - 460 °F (221.11 - 237.78 °C) Melting point/freezing point

Initial boiling point and boiling

range

Not available.

Flash point Not applicable. **Evaporation rate** Not available.

Flammability (solid, gas) Solid metal is not flammable. Fine particles may form explosive mixtures with air.

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Not available. Vapor pressure Not available. Vapor density

Relative density 9 - 11 (water=1)

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Explosive properties**Not explosive. **Oxidizing properties**Not oxidizing.

# 10. Stability and reactivity

**Reactivity**The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Contact with incompatible materials. Avoid molten metal contact with water.

Incompatible materials Strong acids. Chlorine. Turpentine. Acetylene Gas.

**Hazardous decomposition** 

products

Toxic metal oxides are emitted when heated above the melting point.

# 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Solid product: No adverse effects due to inhalation are expected. Elevated temperatures or

mechanical action may form dust and fumes which may be irritating to the mucous membranes and respiratory tract. Lung damage and possible pulmonary edema can result from dust exposure. Inhalation of fumes may cause a flu-like illness called metal fume fever.

Skin contact Solid product: No adverse effects due to skin contact are expected. Contact with molten material

may cause thermal burns. Dust may irritate skin.

**Eye contact** Solid product: No adverse effects are expected. Elevated temperatures or mechanical action may

form dust and fumes which may be irritating to the eye. Contact with hot material can cause

thermal burns which may result in permanent damage.

**Ingestion** Not likely, due to the form of the product. Ingestion of dusts generated during working operations

may cause nausea and vomiting.

Symptoms related to the physical, chemical and toxicological characteristics

Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye, mucous membranes and respiratory tract. Contact with molten material may cause

thermal burns.

#### Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

**Skin corrosion/irritation** Contact with molten material may cause thermal burns. Dust may irritate skin.

Serious eye damage/eye

irritation

Molten material will produce thermal burns. Elevated temperatures or mechanical action may form

dust and fumes which may be irritating to the eye.

Respiratory or skin sensitization

**Respiratory sensitization** This product is not expected to cause respiratory sensitization.

**Skin sensitization** No sensitizing effects known.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

# NTP Report on Carcinogens

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

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Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard** 

Prolonged and repeated overexposure to dust and fumes can lead to benign pneumoconiosis Chronic effects

(stannosis). Overexposure to Tin can result in benign pneumoconiosis (stannous). This form of pneumoconiosis produces progressive x-ray changes of the lungs as long as exposure exists, but there is no distinctive fibrosis, no evidence of disability and no special complicating factors.

#### 12. Ecological information

Alloys in massive forms present a limited hazard for the environment. The product contains a **Ecotoxicity** 

substance which is very toxic to aquatic organisms.

Persistence and degradability The product contains inorganic compounds which are not biodegradable.

No data available. Bioaccumulative potential

Mobility in soil Alloys in massive forms are not mobile in the environment.

None expected. Other adverse effects

# 13. Disposal considerations

**Disposal instructions** Dispose in accordance with all applicable regulations.

Local disposal regulations Dispose of in accordance with local regulations.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Scrapped material should be sent for refining to recover precious metal content. Solid metal and alloys in the form of particles may be reactive. Its hazardous characteristics, including fire and explosion, should be determined prior to disposal.

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

# 15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Copper (CAS 7440-50-8) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

**Toxic Substances Control Act (TSCA)** All components of the mixture on the TSCA 8(b) inventory are designated

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Nο

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Chemical name	CAS number	% by wt.	
Copper	7440-50-8	3.5	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

# **US state regulations**

#### **US. Massachusetts RTK - Substance List**

Copper (CAS 7440-50-8) Tin (CAS 7440-31-5)

#### US. New Jersey Worker and Community Right-to-Know Act

Copper (CAS 7440-50-8) Tin (CAS 7440-31-5)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Copper (CAS 7440-50-8) Tin (CAS 7440-31-5)

#### **US. Rhode Island RTK**

Copper (CAS 7440-50-8) Tin (CAS 7440-31-5)

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Copper (CAS 7440-50-8) Tin (CAS 7440-31-5)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

HMIS® ratings Health: 0

Flammability: 0 Physical hazard: 0

**Disclaimer** Oatey Co. cannot anticipate all conditions under which this information and its product, or the

products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.