

# SAFETY DATA SHEET

## 1. Identification

1. Identification						
Product identifier	Oatey Leaded Solder (Acid or Rosin Core Wire)					
Other means of identification	Other means of identification					
SDS number	1602E					
Synonyms	Part Numbers: 50192, 20015, 20019, 53010, 53182, 53014, 53191, 50490, 211018, 21305, 20307, 21212, 29033, 50194, 53023, 53012, 53184, 53185, 53016, 53193, 50678, 20116, 211115, 29032, 50193, 50429, 53011, 53015, 53183, 53192, 53196.					
Recommended use	Joining Copper tubing and sheeting in non-pot	table water applications.				
Recommended restrictions	None known.					
Manufacturer/Importer/Supplier/	Distributor information					
Company Name Address	Oatey Co. 4700 West 160th St. Cleveland, OH 44135					
Telephone	216-267-7100					
E-mail	info@oatey.com					
Transport Emergency Emergency First Aid	Chemtrec 1-800-424-9300 (Outside the US 1- 1-877-740-5015	703-527-3887)				
Contact person	MSDS Coordinator					
2. Hazard(s) identification						
Physical hazards	Not classified.					
Health hazards	Carcinogenicity	Category 2				
	Reproductive toxicity (fertility, the unborn child)	Category 1A				
	Specific target organ toxicity, single exposure	Category 3 narcotic effects				
	Specific target organ toxicity, repeated exposure	Category 1 (brain, liver, kidney)				
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1				
	Hazardous to the aquatic environment, long-term hazard	Category 1				
OSHA defined hazards	Not classified.					
Label elements						
Signal word	Danger					
Hazard statement	May cause drowsiness or dizziness. Suspected of causing cancer. May damage fertility. May damage the unborn child. Causes damage to organs (brain, liver, kidney) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.					
Precautionary statement						
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/gue pretotion					

clothing/eye protection/face protection. Response If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Collect spillage. Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Lead	7439-92-1	50-60
Tin	7440-31-5	40-50

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.		
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.		
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.		
Most important symptoms/effects, acute and delayed	Abdominal pain. Diarrhea. Edema. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Jaundice. Skin irritation. Prolonged exposure may cause chronic effects.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.		
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). 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			

Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Dry chemical powder. Dry sand. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.	
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	Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards	No unusual fire or explosion hazards noted.	

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	This product is miscible in water. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

# 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Туре		Value	
Lead (CAS 7439-92-1)	TWA			0.05 mg/m3
US. OSHA Table Z-1 Lim	its for Air Contam	inants (29 CFR 1910.10	)00)	
Components		Туре		Value
Tin (CAS 7440-31-5)		PEL		2 mg/m3
US. ACGIH Threshold Li	mit Values			
Components		Туре		Value
Lead (CAS 7439-92-1)		TWA		0.05 mg/m3
Tin (CAS 7440-31-5)		TWA		2 mg/m3
US. NIOSH: Pocket Guid	e to Chemical Haz	ards		
Components		Туре		Value
Lead (CAS 7439-92-1)		TWA		0.05 mg/m3
Tin (CAS 7440-31-5)		TWA		2 mg/m3
ological limit values				
ACGIH Biological Expos	ure Indices			
Components	Value	Determinant	Specimen	Sampling Time
Lead (CAS 7439-92-1)	300 µg/l	Lead	Blood	*
* - For sampling details, p	ease see the sourc	e document.		
propriate engineering ntrols	should be ma or other engin	tched to conditions. If ap beering controls to mainta	plicable, use j ain airborne le	er hour) should be used. Ventilation rates process enclosures, local exhaust ventila vels below recommended exposure limits airborne levels to an acceptable level.
lividual protection measu	res, such as perso	nal protective equipme	ent	
Eye/face protection	If contact is likely, safety glasses with side shields are recommended.			
Skin protection				
Hand protection	Wear appropriate chemical resistant gloves.			
Other	Not available.			
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. No personal respiratory protective equipment normally required.			
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.			
neral hygiene nsiderations	When using, do not eat, drink or smoke. 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.			
Physical and chemic	al properties			
pearance	Wire or Bar.			

Appearance	Wire or Bar.			
Physical state	Solid.			
Form	Solid.			
Color	Silver.			
Odor	Not available.			

Odor threshold	Not available.		
рН	Not available.		
Melting point/freezing point	360 - 460 °F (182.22 - 237.78 °C)		
Initial boiling point and boiling range			
Flash point	Not available.		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not available.		
Upper/lower flammability or exp	losive limits		
Flammability limit - lower (%)	Not available.		
Flammability limit - upper (%)	Not available.		
Explosive limit - lower (%)	Not available.		
Explosive limit - upper (%)	Not available.		
Vapor pressure	Not available.		
Vapor density	Not available.		
Relative density	9 - 11		
Solubility(ies)			
Solubility (water)	Not Soluble		
Partition coefficient (n-octanol/water)	Not available.		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
Viscosity	Not available.		
Other information			
VOC (Weight %)	0		
10 Stability and reactivity	,		

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.		
Chemical stability	Material is stable under normal conditions.		
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.		
Conditions to avoid	Contact with incompatible materials.		
Incompatible materials	Acids. Strong oxidizing agents. Chlorine.		
Hazardous decomposition products	No hazardous decomposition products are known.		

# 11. Toxicological information

## Information on likely routes of exposure

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Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.		
Skin contact	No adverse effects due to skin contact are expected.		
Eye contact	Direct contact with eyes may cause temporary irritation.		
Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Abdominal pain. Diarrhea. Edema. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Jaundice. Irritation of eyes and mucous membranes. Skin irritation.		
Information on toxicological eff	ects		
Acute toxicity	Narcotic effects.		
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		

Respiratory or skin sensitization	1		
<b>Respiratory sensitization</b>	Not available.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Suspected of causing cancer.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Lead (CAS 7439-92-1)	2B Possibly carcinogenic to humans.		
NTP Report on Carcinogens	8		
Lead (CAS 7439-92-1)	Reasonably Anticipated to be a Human Carcinogen.		
OSHA Specifically Regulate	gulated Substances (29 CFR 1910.1001-1050)		
Not listed.			
Reproductive toxicity	May damage the unborn child. May damage fertility.		
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.		
Specific target organ toxicity - repeated exposure	Causes damage to organs (brain, liver, kidney) through prolonged or repeated exposure.		
Aspiration hazard	Not available.		
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. Causes damage to organs through prolonged or repeated exposure.		

# 12. Ecological information

Ecotoxicity	Very toxic to aquatic life with long lasting effects.		
Components		Species	Test Results
Lead (CAS 7439-92-1)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	1.17 mg/l, 96 Hours

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

## 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

DOT
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UN number	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (Lead RQ = 18 LBS)
Transport hazard class(es)	
Class	9

Subsidiary risk Label(s) Backing group	- 9 111
Packing group Special precautions for user Special provisions Packaging exceptions Packaging non bulk Packaging bulk	Read safety instructions, SDS and emergency procedures before handling. 8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33 155 213 240
IATA	
UN number UN proper shipping name Transport hazard class(es) Class	UN3077 Environmentally hazardous substance, solid, n.o.s. (Lead) 9
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
UN number	UN3077
UN number UN proper shipping name Transport hazard class(es)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead)
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS Special procestions for user	F-A, S-F
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Read safety instructions, SDS and emergency procedures before handling. Not applicable.
15. Regulatory information	
LIS federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Commun

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.		
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)			
Not regulated. OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1050)		

Lead (CAS 7439-92-1)

Reproductive toxicity Central nervous system Kidney Blood Acute toxicity

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

Lead (CAS 7439-92-1)

LISTED

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
	Reactivity Hazaru - NO

#### SARA 302 Extremely hazardous substance

Not listed.

# SARA 311/312 Hazardous No chemical

Chemical name		CAS number	% by wt.
Lead		7439-92-1	50-60
ther federal regulations			
Clean Air Act (CAA) Sectio	n 112 Hazardous Air Pollutants	(HAPs) List	
Lead (CAS 7439-92-1) Clean Air Act (CAA) Sectio	n 112(r) Accidental Release Pre	vention (40 CFR	68.130)
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
S state regulations			
US. Massachusetts RTK - S	Substance List		
Lead (CAS 7439-92-1) Tin (CAS 7440-31-5)			
US. New Jersey Worker an	d Community Right-to-Know Ac	t	
Lead (CAS 7439-92-1) Tin (CAS 7440-31-5)			
US. Pennsylvania Worker a	and Community Right-to-Know I	_aw	
Lead (CAS 7439-92-1) Tin (CAS 7440-31-5)			
US. Rhode Island RTK			
Lead (CAS 7439-92-1)			
US. California Proposition WARNING: This produc reproductive harm.		e State of Californ	ia to cause cancer and birth defects or other
<b>US - California Propos</b> Lead (CAS 7439-92	ition 65 - Carcinogens & Reproc 2-1)	luctive Toxicity (	(CRT): Listed substance
ternational Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)
Australia	Australian Inventory of Chemic	al Substances (Al	ICS) Ye
Canada	Domestic Substances List (DS	L)	Ye
Canada	Non-Domestic Substances List	(NDSL)	N
China	Inventory of Existing Chemical	Substances in Ch	nina (IECSC) Ye
Europe	European Inventory of Existing	Commercial Che	emical Ye

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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

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

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

Issue date	17-December-2014
Revision date	10-November-2017
Version #	01
HMIS® ratings	Health: 2* Flammability: 0 Physical hazard: 0

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.