Datey®

SAFETY DATA SHEET

1. Identification

Product identifier Oatey Leaded Solder (Acid or Rosin Core Wire)

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 useJoining Copper tubing and sheeting in non-potable water applications.

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 Carcinogenicity Category 2

Reproductive toxicity (fertility, the unborn

child)

Category 1A

Specific target organ toxicity, single exposure C Specific target organ toxicity, repeated C

Category 3 narcotic effects
Category 1 (brain, liver, kidney)

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

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/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.

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Hazard(s) not otherwise classified (HNOC)

Dispose of contents/container in accordance with local/regional/national/international regulations.

Inhalation of fumes may cause a flu-like illness called metal fume fever.

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.

Rinse skin with water/shower. Get medical attention if irritation develops and persists. Skin contact

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

may cause chronic effects.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Most important

symptoms/effects, acute and delayed

Indication of immediate

treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. medical attention and special

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice **General information**

> (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

Abdominal pain. Diarrhea. Edema. May cause drowsiness and dizziness. Headache. Nausea,

vomiting. Irritation of eyes and mucous membranes. Jaundice. Skin irritation. Prolonged exposure

attendance.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Dry sand. Carbon dioxide (CO2).

Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media

Specific hazards arising from During fire, gases hazardous to health may be formed.

the chemical Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefighters Fire fighting Use water spray to cool unopened containers. equipment/instructions

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.

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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 Limits for Air Contaminants (29 CFR 1910.1000)				
Components	Туре	Value		
Tin (CAS 7440-31-5)	PEL	2 mg/m3		
US. ACGIH Threshold Limit Valu	ies			
Components	Туре	Value		

Lead (CAS 7439-92-1)	TWA	0.05 mg/m3		
Tin (CAS 7440-31-5)	TWA	2 mg/m3		
US NIOSU, Backet Cuida to Chamical Hazarda				

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value
Lead (CAS 7439-92-1)	TWA	0.05 mg/m3
Tin (CAS 7440-31-5)	TWA	2 mg/m3

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Lead (CAS 7439-92-1)	300 µg/l	Lead	Blood	*	

^{* -} For sampling details, please see the source document.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to 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 If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Not available. Other

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. No personal respiratory

protective equipment normally required.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such General hygiene

as washing after handling the material and before eating, drinking, and/or smoking. Routinely considerations

wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

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

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Odor threshold Not available.

pH Not available.

Melting point/freezing point 360 - 460 °F (182.22 - 237.78 °C)

Initial boiling point and boiling

range

Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)
Explosive limit - upper (%)

Not available.
Not available.
Not available.
Not available.

Relative density 9 - 11

Solubility(ies)

Vapor density

Vapor pressure

Solubility (water) Not Soluble

Partition coefficient Not available.

(n-octanol/water)

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

Other information

VOC (Weight %) 0

10. Stability and reactivity

ReactivityThe 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

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 effects

Acute toxicity Narcotic effects.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization 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

Lead (CAS 7439-92-1) Reasonably Anticipated to be a Human Carcinogen.

OSHA Specifically Regulated 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

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow **Disposal instructions**

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).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

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

emptied.

14. Transport information

DOT

UN number UN3077

UN proper shipping name Environmentally hazardous substances, solid, n.o.s. (Lead RQ = 18 LBS)

Transport hazard class(es)

9 Class

Oatey Leaded Solder (Acid or Rosin Core Wire)

Subsidiary risk 9 Label(s) Ш Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33 Special provisions

Packaging exceptions 155 Packaging non bulk 213 Packaging bulk 240

IATA

UN3077 **UN** number

UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (Lead)

Transport hazard class(es)

Class 9 Subsidiary risk Packing group Ш **Environmental hazards** No. **ERG Code** 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN3077

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead) **UN proper shipping name**

Transport hazard class(es)

Class 9 Subsidiary risk Ш Packing group **Environmental hazards**

Marine pollutant

No. **EmS** F-A. S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

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 Regulated Substances (29 CFR 1910.1001-1050)

Not applicable.

Lead (CAS 7439-92-1) Reproductive toxicity

Central nervous system

Kidney Blood

Acute toxicity

CERCLA Hazardous Substance List (40 CFR 302.4)

LISTED Lead (CAS 7439-92-1)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Nο

chemical

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SARA 313 (TRI reporting)

Chemical name CAS number % by wt. Lead 7439-92-1 50-60

Other federal regulations

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

Lead (CAS 7439-92-1)

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Lead (CAS 7439-92-1) Tin (CAS 7440-31-5)

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

Lead (CAS 7439-92-1) Tin (CAS 7440-31-5)

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

Lead (CAS 7439-92-1) Tin (CAS 7440-31-5)

US. Rhode Island RTK

Lead (CAS 7439-92-1)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Lead (CAS 7439-92-1)

International Inventories

Country(s) or region

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)	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

^{*}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

Inventory name

17-December-2014 Issue date

Revision date Version # 01

HMIS® ratings Health: 2*

Flammability: 0 Physical hazard: 0

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On inventory (yes/no)*

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).

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.