

SAFETY DATA SHEET TIN-LEAD 60/40

1. Identification

Product identifier

Product name TIN-LEAD 60/40

Product number 5935

Recommended use of the chemical and restrictions on use

Application Industrial Use

Details of the supplier of the safety data sheet

Supplier SIFCO Applied Surface Concepts

5708 E. Schaaf Road Independence, Ohio 44131

U.S.A.

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Emergency telephone number

Emergency telephone CHEMTREC (United States) (800) 424-9300; CHEMTREC (International) +1 703-527-3887

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT RE

2 - H373

Environmental hazards Aquatic Chronic 2 - H411

Label elements

Pictogram







Signal word

Danger

Hazard statements H314 Causes severe skin burns and eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H411 Toxic to aquatic life with long lasting effects.

H373 May cause damage to organs through prolonged or repeated exposure.

H317 May cause an allergic skin reaction.

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Precautionary statements P260 Do not breathe vapor/spray.

P264 Wash contaminated skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 [In case of inadequate ventilation] wear respiratory protection. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P302+P352 If on skin: Wash with plenty of water.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with national regulations. P202 Do not handle until all safety precautions have been read and understood.

P308+P313 If exposed or concerned: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Contains ETHYLENEDIAMINE, LEAD CITRATE

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

CIT	RIC ACID	10-30%

CAS number: 77-92-9

Classification

Eye Irrit. 2 - H319

ETHYLENEDIAMINE	10-30%

CAS number: 107-15-3

Classification

Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318

Resp. Sens. 1 - H334 Skin Sens. 1 - H317

STANNOUS OXIDE 5-10%

CAS number: 21651-19-4

Classification

Acute Tox. 4 - H302

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LEAD CITRATE 1-5%

CAS number: 512-26-5

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H332 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Never give anything by mouth to an unconscious person. Get medical attention.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. NEVER

MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention

immediately.

Skin Contact Remove contaminated clothing immediately and wash skin with soap and water. Continue to

rinse for at least 15 minutes and get medical attention.

Eye contact It is recommended that suitable facilities for quick drenching or flushing of the eyes and body

be provided within the work area for immediate emergency use. Remove affected person from source of contamination. Make sure to remove any contact lenses from the eyes before rinsing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and

get medical attention.

Most important symptoms and effects, both acute and delayed

Inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing, chest

tightness, feeling of chest pressure.

Ingestion May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.

Skin contact May cause serious chemical burns to the skin. May cause an allergic skin reaction.

Eye contact Causes severe burns. May cause serious eye damage.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Special hazards arising from the substance or mixture

Specific hazards Toxic and corrosive gases or vapors.

Advice for firefighters

Protective actions during

firefighting

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

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for firefighters

Special protective equipment Use protective equipment appropriate for surrounding materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of Personal precautions

spray mist and contact with skin and eyes. Provide adequate general and local exhaust

ventilation.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Inform the relevant

authorities if environmental pollution occurs (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots,

> clothing or apron, as appropriate. Stop leak if possible without risk. DO NOT touch spilled material! Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable noncombustible material. Collect and dispose of spillage as indicated in Section 13. Wash

thoroughly after dealing with a spillage.

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11

for additional information on health hazards. See Section 12 for additional information on

ecological hazards. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapors and spray/mists.

Provide adequate general and local exhaust ventilation.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from

freezing and direct sunlight.

Storage class Toxic storage. Corrosive storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

ETHYLENEDIAMINE

Long-term exposure limit (8-hour TWA): OSHA 10 ppm 25 mg/m³

STANNOUS OXIDE

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³

as Sn

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

Exposure controls

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Protective equipment







Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapor or mist.

Eye/face protection Tight-fitting safety glasses.

Hand protection It is recommended that chemical-resistant, impervious gloves are worn. Considering the data

specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. It is

recommended that gloves are made of the following material: Nitrile rubber.

Other skin and body

protection

Appropriate footwear and additional protective clothing complying with an approved standard

should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures Do not eat, drink or smoke when using this product. Wash at the end of each work shift and

before eating, smoking and using the toilet.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory

protection must be used if the airborne contamination exceeds the recommended

occupational exposure limit.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Liquid.

Color Amber.

Odor Amine.

pH pH (concentrated solution): 7.4-8.2

Relative density 1.18-1.260 @ 20°C

Other information Not available.

10. Stability and reactivity

Reactivity There are no known reactivity hazards associated with this product.

Stability Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

Not determined.

products: Toxic gases or vapors.

Materials to avoid Strong acids.

Hazardous decomposition

products

None at ambient temperatures.

11. Toxicological information

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Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 2,643.7

Acute toxicity - dermal

ATE dermal (mg/kg) 10,091.74

Acute toxicity - inhalation

ATE inhalation (gases ppm) 102,272.73

ATE inhalation (vapours mg/l) 250.0

ATE inhalation (dusts/mists 34.09

mg/l)

Inhalation May cause respiratory system irritation. May cause allergy or asthma symptoms or breathing

difficulties if inhaled. May cause sensitisation by inhalation.

Ingestion May cause stomach pain or vomiting. Swallowing concentrated chemical may cause severe

internal injury.

Skin ContactCauses burns. May cause an allergic skin reaction. May cause sensitisation by skin contact.

Eye contact Causes serious eye damage. Immediate first aid is imperative.

Acute and chronic health

hazards

Causes severe burns.

Route of entry Ingestion Inhalation Skin and/or eye contact

Toxicological information on ingredients.

ETHYLENEDIAMINE

Acute toxicity - oral

Acute toxicity oral (LD50

1,200.0

mg/kg)

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD50 560.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 dust/mist mg/l)

14.7

Species Rat

ATE inhalation (vapours 11.0

mg/l)

12. Ecological Information

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Ecotoxicity Dangerous for the environment. May cause long-term adverse effects in the aquatic

environment.

Toxicity

Toxicity No data available.

Ecological information on ingredients.

LEAD CITRATE

Acute aquatic toxicity

LE(C)₅₀ $0.1 < L(E)C50 \le 1$

M factor (Acute)

Chronic aquatic toxicity

M factor (Chronic) 1

Persistance and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative Potential The product does not contain any substances expected to be bioaccumulating.

Mobility in soil

Mobility The product is soluble in water.

Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

Other adverse effects

Other adverse effects Not determined.

13. Disposal considerations

Waste treatment methods

General information Disposal of this product, process solutions, residues and by-products should at all times

comply with the requirements of environmental protection and waste disposal legislation and

any local authority requirements.

14. Transport information

UN Number

UN No. (DOT) 1760

UN No. (IMDG) 1760

UN No. (ICAO) 1760

UN proper shipping name

Proper shipping name (DOT) CORROSIVE LIQUID, N.O.S. (ETHYLENEDIAMINE, LEAD CITRATE)

Proper shipping name CORROSIVE LIQUID, N.O.S. (ETHYLENEDIAMINE, LEAD CITRATE)

(IMDG)

Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S. (ETHYLENEDIAMINE, LEAD CITRATE)

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Transport hazard class(es)

IMDG Class 8

IMDG subsidiary risk

ICAO class/division 8

ICAO subsidiary risk

Transport labels



Packing group

DOT pack group II
IMDG packing group II
ICAO packing group II

Environmental hazards

Environmentally Hazardous Substance



Special precautions for user

EmS F-A, S-B

Transport in bulk according to No information required.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Ethylenediamine 10,000 lbs

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

Ethylenediamine

Final CERCLA RQ: 5,000

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Ethylenediamine EPCRA RQ: 5,000 lbs

SARA 313 Emission Reporting

Exempt.

CAA Accidental Release Prevention

Ethylenediamine Threshold Quantity: 20,000 lbs HAP

Lead Citrate

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SARA (311/312) Hazard Categories

Acute Chronic

OSHA Highly Hazardous Chemicals

Exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Exempt.

California Directors List of Hazardous Substances

Ethylenediamine

Inventories

US-TSCA

All ingredients are present.

16. Other information

Revision date 4/22/2015

Revision 1

Hazard statements in full H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

NFPA - flammability hazard Will not burn. (0)

NFPA - health hazard Temporary incapacitation, injury. (2)

NFPA - instability hazard Normally stable. (0)

The Information in this data sheet is believed to be correct but neither we nor our employees or agents give any warranty or make any representation to the accuracy thereof and accept no liability for any loss, injury or damage which may result in it's use. The sole purpose of this data sheet is to provide guidance on the safe handling and use of the products to which it relates. It does not form part of any product specification nor part of any contract. It is not practical for the guidance and information in this data sheet to cover every conceivable application of a product and as we may not be aware of the use to which the products covered by this data sheet are to be put it remains the responsibility of the user to conduct it's own tests and to satisy itself as to the suitability of the product.