

SAFETY DATA SHEET TIN ALKALINE

1. Identification

Product identifier

Product name TIN ALKALINE

Product number 2092

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.

Tel.: +1 216-524-0099 Fax: +1 216-524-6331 E-Mail: info@sifcoasc.com

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 Skin Sens. 1 - H317 Muta. 2 - H341 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.

H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

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

H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements P260 Do not breathe vapor/ spray.

P264 Wash contaminated skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
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. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P270 Do not eat, drink or smoke when using this product.

P284 [In case of inadequate ventilation] wear respiratory protection. P301+P310 If swallowed: Immediately call a poison center/ doctor.

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

Contains TIN(II) SULPHATE, DIETHYLENETRIAMINE

Other hazards

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

3. Composition/information on ingredients

Mixtures

TIN(II) SULPHATE 10-15%

CAS number: 7488-55-3

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

Classification

Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Muta. 2 - H341 STOT SE 3 - H335 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

AMMONIUM TARTRATE 10-15%

CAS number: 14307-43-8

Classification

Not Classified

DIETHYLENETRIAMINE 5-10%

CAS number: 111-40-0

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314

Eye Dam. 1 - H318 Skin Sens. 1 - H317

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DIAMMONIUM TARTRATE 5-10%

CAS number: 3164-29-2

Classification
Not Classified

AMMONIUM SULPHATE <1%

CAS number: 7783-20-2

Classification Not Classified

The full text for all hazard statements is 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. 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. Get medical attention if irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. 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 Coughing, chest tightness, feeling of chest pressure.

Ingestion Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal

tract. May cause stomach pain or vomiting.

Skin contactCauses severe burns. May cause sensitization or allergic reactions in sensitive individuals.

Prolonged contact may cause redness, irritation and dry skin.

Eye contact Causes serious eye damage. May cause blurred vision and serious eye damage. Immediate

first aid is imperative.

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 gases or vapors.

Advice for firefighters

Protective actions during

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

firefighting 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. Provide adequate Personal precautions

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. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Contain and absorb spillage with sand, earth or other non-combustible 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.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

DIETHYLENETRIAMINE

Long-term exposure limit (8-hour TWA): ACGIH 1 ppm 4.2 mg/m³

Sk

ACGIH = American Conference of Governmental Industrial Hygienists.

Sk = Danger of cutaneous absorption.

Exposure controls

Protective equipment







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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.

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.

Odor Ammonia.

pH pH (concentrated solution): 7.0-7.4

Relative density 1.170-1.200 @ 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.

Conditions to avoid Avoid excessive heat for prolonged periods of time.

Materials to avoid Strong acids.

Hazardous decomposition

products

None at ambient temperatures.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 5,681.82

Acute toxicity - dermal

ATE dermal (mg/kg) 12,500.0

Acute toxicity - inhalation

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ATE inhalation (dusts/mists

mg/l)

10.79

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

difficulties if inhaled.

Ingestion May cause stomach pain or vomiting.

Skin Contact Causes severe burns. May cause an allergic skin reaction. May cause sensitisation by skin

contact.

Eye contact Causes serious eye damage.

Acute and chronic health

hazards

May cause genetic defects.

Route of entry Ingestion Inhalation Skin and/or eye contact

Toxicological information on ingredients.

TIN(II) SULPHATE

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

2.207

1.5

Species Rat

Acute toxicity - inhalation

ATE inhalation

(dusts/mists mg/l)

DIETHYLENETRIAMINE

Acute toxicity - oral

Acute toxicity oral (LD50

1,080.0

mg/kg)

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,090.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 1,100.0

12. Ecological Information

Ecotoxicity Dangerous for the environment.

Toxicity No data available.

Ecological information on ingredients.

TIN(II) SULPHATE

Acute aquatic toxicity

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LE(C)₅₀ $0.1 < L(E)C50 \le 1$

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 48 hour: 99.5 mg/l, Daphnia magna

Chronic aquatic toxicity

M factor (Chronic) 1

DIETHYLENETRIAMINE

Acute toxicity - fish LC₅₀, 96 hour: 1014 mg/l, Poecilia reticulata (Guppy)

Persistence 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.

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. (TDG) 1760

UN No. (IMDG) 1760

UN No. (ICAO) 1760

UN No. (DOT) 1760

UN proper shipping name

Proper shipping name (TDG) CORROSIVE LIQUID, N.O.S. (DIETHYLENETRIAMINE)

Proper shipping name (IMDG) CORROSIVE LIQUID, N.O.S. (DIETHYLENETRIAMINE)

Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S. (DIETHYLENETRIAMINE)

Proper shipping name (DOT) CORROSIVE LIQUID, N.O.S. (DIETHYLENETRIAMINE)

Transport hazard class(es)

TDG class 8

TDG label(s) 8

IMDG Class 8

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ICAO class/division 8

Transport labels



Packing group

TDG Packing Group

IMDG packing group

ICAO packing group

II

DOT 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 Exempt.

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

Ammonium Tartrate Final CERCLA RQ: 5000 lbs Diammonium Tartrate Final CERCLA RQ: 5000 lbs

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Exempt.

SARA 313 Emission Reporting

Exempt.

CAA Accidental Release Prevention

Exempt.

SARA (311/312) Hazard Categories

Acute Chronic

OSHA Highly Hazardous Chemicals

Exempt.

US State Regulations

TIN ALKALINE

California Proposition 65 Carcinogens and Reproductive Toxins

Exempt.

California Directors List of Hazardous Substances

Exempt.

Inventories

US - TSCA

All ingredients are present.

16. Other information

Classification abbreviations

and acronyms

Acute Tox. = Acute toxicity
Carc. = Carcinogenicity

Eye Dam. = Serious eye damage

Eye Irrit. = Eye irritation
Flam. Liq. = Flammable liquid
Muta. = Germ cell mutagenicity
Repr. = Reproductive toxicity

Resp. Sens. = Respiratory sensitisation

Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation Skin Sens. = Skin sensitisation

STOT RE = Specific target organ toxicity-repeated exposure STOT SE = Specific target organ toxicity-single exposure

Revision date 6/1/2017

Revision 2

Hazard statements in full H303

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

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.

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.