

SAFETY DATA SHEET

Version 6.5 Revision Date 06/06/2023 Print Date 11/11/2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

| | Product name | [:] Tin(II) 2-ethylhexanoate | |
|-----|---|---------------------------------------|---|
| | Product Number Brand CAS-No. | : | S3252 Aldrich 301-10-0 |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised again | | |
| | Identified uses | : | Laboratory chemicals, Synthesis of substances |

1.3 Details of the supplier of the safety data sheet

| | •• | | • |
|-----|---------------------|---|---|
| | Company | : | Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES |
| | Telephone Fax | | +1 314 771-5765 +1 800 325-5052 |
| 1.4 | Emergency telephone | | |

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious eye damage (Category 1), H318 Skin sensitization (Category 1), H317 Reproductive toxicity (Category 2), H361 Short-term (acute) aquatic hazard (Category 3), H402 Long-term (chronic) aquatic hazard (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Aldrich - S3252

Page 1 of 10



| Signal Word | Danger |
|---|--|
| Hazard statement(s) H317 H318 H361 H412 | May cause an allergic skin reaction. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects. |
| Precautionary statement(s) | |
| P201 P202 | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. |
| P261 | Avoid breathing mist or vapors. |
| P272 | Contaminated work clothing must not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P305 + P351 + P338 + | IF IN EYES: Rinse cautiously with water for several minutes. |
| P310 | Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. |
| P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/ attention. |
| P363 | Wash contaminated clothing before reuse. |
| P405 | Store locked up. |
| P501 | Dispose of contents/ container to an approved waste disposal plant. |

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

| SEC | TION 3: Composition | /info | mation on ingre | dients | | |
|-----|--|----------------|---|--|---------------|--|
| 3.1 | Substances Synonyms | onyms : S S | | Stannous octoate Stannous 2-ethylhexanoate 2-Ethylhexanoic acidtin(II) salt | | |
| | Formula Molecular weight CAS-No. EC-No. | : | C ₁₆ H ₃₀ O₄Sn 405.12 g/mol 301-10-0 206-108-6 | | | |
| | Component | | | Classification | Concentration | |
| | Tin(II) bis(2-ethylhexanoate) | | | | | |
| | | | | Eye Dam. 1; Skin Sens. 1; Repr. 2; Aquatic Acute 3; Aquatic Chronic 3; H318, H317, H361, H402, H412 | <= 100 % | |

For the full text of the H-Statements mentioned in this Section, see Section 16.

Aldrich - S3252

Page 2 of 10



SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides Tin/tin oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Aldrich - S3252

Page 3 of 10



SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
- **6.2 Environmental precautions** Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.
- **6.4** Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Tightly closed.

Storage class Storage class (TRGS 510): 10: Combustible liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

| Component | CAS-No. | Value | Control parameters | Basis |
|-----------------------------------|----------|--|-----------------------|--|
| Tin(II) bis(2- ethylhexanoate) | 301-10-0 | TWA | 0.1 mg/m3 | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| | | TWA | 0.1 mg/m3 | USA. ACGIH Threshold Limit Values (TLV) |
| | Remarks | Not classifiable as a human carcinogen Danger of cutaneous absorption | | |
| | | STEL | 0.2 mg/m3 | USA. ACGIH Threshold Limit Values (TLV) |
| | | Not classifiable as a human carcinogen Danger of cutaneous absorption | | |

Aldrich - S3252

Page 4 of 10



| TWA | 0.1 mg/m3 | USA. NIOSH Recommended Exposure Limits | |
|--------------|---------------------------------|--|--|
| Potential fo | Potential for dermal absorption | | |
| PEL | 0.1 mg/m3 | California permissible exposure limits for chemical contaminants (Title 8, Article 107) | |
| Skin | | | |
| STEL | 0.2 mg/m3 | California permissible exposure limits for chemical contaminants (Title 8, Article 107) | |
| Skin | | | |

8.2 Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

required

Body Protection

protective clothing

Respiratory protection

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- a) Appearance Form: viscous liquid
- Color: light yellow
- b) Odor No data available
- c) Odor Threshold No data available
- d) pH No data available
- e) Melting Melting point/range: 9 °C (48 °F) at 1,013.0 hPa OECD Test Guideline 102

Aldrich - S3252

Page 5 of 10



| f) | Initial boiling point and boiling range | No data available | | | |
|--------------------------|--|--|--|--|--|
| g) | Flash point | 113 °C (235 °F) - closed cup | | | |
| h) | Evaporation rate | No data available | | | |
| i) | Flammability (solid, gas) | No data available | | | |
| j) | Upper/lower flammability or explosive limits | No data available | | | |
| k) | Vapor pressure | No data available | | | |
| I) | Vapor density | No data available | | | |
| m) | Density | 1.251 g/cm3 at 25 °C (77 °F) - lit. | | | |
| | Relative density | 1.26 | | | |
| n) | Water solubility | 4.585 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - soluble | | | |
| o) | Partition coefficient: n-octanol/water | No data available | | | |
| p) | Autoignition temperature | > 400 °C (> 752 °F) at 1010.50 - 1011.10 hPa | | | |
| q) | Decomposition temperature | No data available | | | |
| r) | Viscosity | ca.306 mm2/s at 20 °C (68 °F) - | | | |
| s) | Explosive properties | No data available | | | |
| t) | Oxidizing properties | none | | | |
| Other safety information | | | | | |
| | Surface tension | 55.9 mN/m at 20.5 °C (68.9 °F) | | | |
| | Dissociation constant | 5.09 at 20 °C (68 °F) | | | |

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions No data available

10.4 Conditions to avoid Strong heating.

10.5 Incompatible materials

Strong oxidizing agents

Aldrich - S3252

Page 6 of 10



10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male - 5,870 mg/kg Inhalation: No data available LD50 Dermal - Rabbit - > 2,000 mg/kg Remarks: Prolonged skin contact may cause skin irritation and/or dermatitis. No data available

Skin corrosion/irritation

Skin - Rabbit Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation

Eyes - Rabbit Result: Severe eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitization

Maximization Test - Guinea pig Result: May cause sensitization by skin contact. (OECD Test Guideline 406)

Germ cell mutagenicity

Test Type: Ames test Test system: S. typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

Carcinogenicity

- IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available Suspected human reproductive toxicant No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aldrich - S3252

Page 7 of 10



Aspiration hazard

No data available

11.2 Additional Information

Repeated dose toxicity - Rat - Oral - NOAEL (No observed adverse effect level) - 250 mg/kg

RTECS: M07870000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

| Toxicity to fish | semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 116 mg/l - 96 h (OECD Test Guideline 203) |
|-------------------|---|
| Toxicity to algae | EC50 - Pseudokirchneriella subcapitata (green algae) - 6.9 mg/l - 72 h (OECD Test Guideline 201) |

- **12.2** Persistence and degradability No data available
- 12.3 Bioaccumulative potential No data available
- **12.4 Mobility in soil** No data available

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

- **12.6 Endocrine disrupting properties** No data available
- **12.7 Other adverse effects** No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Aldrich - S3252

Page 8 of 10



SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

ΙΑΤΑ

Not dangerous goods

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

Tin(II) bis(2-ethylhexanoate)

CAS-No. Revision Date 301-10-0 1993-04-24

SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Aldrich - S3252

Page 9 of 10



Aldrich - S3252

Page 10 of 10

