

## SAFETY DATA SHEET

Version 8.2  
Revision Date 09/28/2020  
Print Date 02/05/2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

Product name : 2-(Tributylstannyl)pyrimidine

Product Number : 721174  
Brand : Aldrich  
CAS-No. : 153435-63-3

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

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 : +1 314 771-5765  
Fax : +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)**

Acute toxicity, Oral (Category 3), H301  
Acute toxicity, Dermal (Category 4), H312  
Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Specific target organ toxicity - repeated exposure (Category 1), H372  
Short-term (acute) aquatic hazard (Category 1), H400  
Long-term (chronic) aquatic hazard (Category 1), H410

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

**2.2 GHS Label elements, including precautionary statements**

Pictogram



|                            |                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Signal word                | Danger                                                                                                                           |
| Hazard statement(s)        |                                                                                                                                  |
| H301                       | Toxic if swallowed.                                                                                                              |
| H312                       | Harmful in contact with skin.                                                                                                    |
| H315                       | Causes skin irritation.                                                                                                          |
| H319                       | Causes serious eye irritation.                                                                                                   |
| H372                       | Causes damage to organs through prolonged or repeated exposure.                                                                  |
| H410                       | Very toxic to aquatic life with long lasting effects.                                                                            |
| Precautionary statement(s) |                                                                                                                                  |
| P260                       | Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.                                                                             |
| P264                       | Wash skin thoroughly after handling.                                                                                             |
| P270                       | Do not eat, drink or smoke when using this product.                                                                              |
| P273                       | Avoid release to the environment.                                                                                                |
| P280                       | Wear protective gloves/ eye protection/ face protection.                                                                         |
| P301 + P310                | IF SWALLOWED: Immediately call a POISON CENTER/ doctor.                                                                          |
| 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. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P314                       | Get medical advice/ attention if you feel unwell.                                                                                |
| P322                       | Specific measures (see supplemental first aid instructions on this label).                                                       |
| P330                       | Rinse mouth.                                                                                                                     |
| P332 + P313                | If skin irritation occurs: Get medical advice/ attention.                                                                        |
| P337 + P313                | If eye irritation persists: Get medical advice/ attention.                                                                       |
| P362                       | Take off contaminated clothing and wash before reuse.                                                                            |
| P391                       | Collect spillage.                                                                                                                |
| 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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                                                     |
|------------------|-----------------------------------------------------|
| Formula          | : C <sub>16</sub> H <sub>30</sub> N <sub>2</sub> Sn |
| Molecular weight | : 369.13 g/mol                                      |
| CAS-No.          | : 153435-63-3                                       |

| Component                            | Classification                                                                                                                                                                                                            | Concentration |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>2-(tributylstannyl)pyrimidine</b> |                                                                                                                                                                                                                           |               |
|                                      | Acute Tox. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H315, H319, H372, H400, H410<br>Concentration limits:<br>>= 1 %: STOT RE 1, H372; 0.25 - < 1 %: STOT | <= 100 %      |

|  |                                                                                                           |  |
|--|-----------------------------------------------------------------------------------------------------------|--|
|  | RE 2, H373; $\geq 1$ %: Eye Irrit. 2, H319; $\geq 1$ %: Skin Irrit. 2, H315; M-Factor - Aquatic Acute: 10 |  |
|--|-----------------------------------------------------------------------------------------------------------|--|

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

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## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. 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

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Tin/tin oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

### 7.3 Specific end use(s)

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

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with workplace control parameters

| Component                     | CAS-No.     | Value                                                                           | Control parameters         | Basis                                                                            |
|-------------------------------|-------------|---------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------|
| 2-(tributylstannyl)pyrimidine | 153435-63-3 | TWA                                                                             | 0.100000 mg/m <sup>3</sup> | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
|                               |             | TWA                                                                             | 0.100000 mg/m <sup>3</sup> | USA. ACGIH Threshold Limit Values (TLV)                                          |
|                               | Remarks     | Not classifiable as a human carcinogen<br>Danger of cutaneous absorption varies |                            |                                                                                  |
|                               |             | STEL                                                                            | 0.200000 mg/m <sup>3</sup> | USA. ACGIH Threshold Limit Values (TLV)                                          |
|                               |             | Not classifiable as a human carcinogen<br>Danger of cutaneous absorption varies |                            |                                                                                  |

|  |  |                                                                             |                   |                                           |
|--|--|-----------------------------------------------------------------------------|-------------------|-------------------------------------------|
|  |  | TWA                                                                         | 0.100000<br>mg/m3 | USA. NIOSH Recommended<br>Exposure Limits |
|  |  | Also see specific listing for Cyhexatin.<br>Potential for dermal absorption |                   |                                           |

## 8.2 Exposure controls

### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### Personal protective equipment

#### Eye/face protection

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

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |                                            |                     |
|--------------------------------------------|---------------------|
| a) Appearance                              | Form: liquid        |
| b) Odor                                    | No data available   |
| c) Odor Threshold                          | No data available   |
| d) pH                                      | No data available   |
| e) Melting point/freezing point            | No data available   |
| f) Initial boiling point and boiling range | No data available   |
| g) Flash point                             | > 110 °C (> 230 °F) |
| 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       |
| l) | Vapor density                                | 12.78 - (Air = 1.0)     |
| m) | Relative density                             | 1.164 g/cm <sup>3</sup> |
| n) | Water solubility                             | No data available       |
| o) | Partition coefficient: n-octanol/water       | No data available       |
| p) | Autoignition temperature                     | No data available       |
| q) | Decomposition temperature                    | No data available       |
| r) | Viscosity                                    | No data available       |
| s) | Explosive properties                         | No data available       |
| t) | Oxidizing properties                         | No data available       |

## 9.2 Other safety information

|                        |                     |
|------------------------|---------------------|
| Relative vapor density | 12.78 - (Air = 1.0) |
|------------------------|---------------------|

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Other decomposition products - No data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Tin/tin oxides

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

No data available

#### 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.

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.

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.

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

No data available

#### Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

No data available

#### Additional Information

RTECS: Not available

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

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## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

### 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 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

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## SECTION 14: Transport information

### DOT (US)

UN number: 2788 Class: 6.1

Packing group: III

Proper shipping name: Organotin compounds, liquid, n.o.s. (2-(tributylstannyl)pyrimidine)

Reportable Quantity (RQ):

- Marine pollutant: yes Poison Inhalation Hazard: No

### IMDG

UN number: 2788 Class: 6.1

Packing group: III

EMS-No: F-A, S-A

Proper shipping name: ORGANOTIN COMPOUND, LIQUID, N.O.S. (2-

(tributylstannyl)pyrimidine)

Marine pollutant : yes

Marine pollutant : yes

### IATA

UN number: 2788 Class: 6.1

Packing group: III

Proper shipping name: Organotin compound, liquid, n.o.s. (2-(tributylstannyl)pyrimidine)

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## SECTION 15: Regulatory information

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### 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

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

|                               |                        |               |
|-------------------------------|------------------------|---------------|
| 2-(tributylstannyl)pyrimidine | CAS-No.<br>153435-63-3 | Revision Date |
|-------------------------------|------------------------|---------------|

|                               |                        |               |
|-------------------------------|------------------------|---------------|
| 2-(tributylstannyl)pyrimidine | CAS-No.<br>153435-63-3 | Revision Date |
|-------------------------------|------------------------|---------------|

### New Jersey Right To Know Components

|                               |                        |               |
|-------------------------------|------------------------|---------------|
| 2-(tributylstannyl)pyrimidine | CAS-No.<br>153435-63-3 | Revision Date |
|-------------------------------|------------------------|---------------|

### California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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## SECTION 16: Other information

### Further information

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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](http://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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