# SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 4.5 Revision Date 06/30/2014 Print Date 11/10/2018

#### 1. PRODUCT AND COMPANY IDENTIFICATION 1.1 **Product identifiers** Product name Trimethylsulfonium iodide : Product Number T80489 Brand Aldrich CAS-No. 2181-42-2 : Relevant identified uses of the substance or mixture and uses advised against 1.2 : Laboratory chemicals, Manufacture of substances Identified uses Details of the supplier of the safety data sheet 1.3 Company Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA +1 800-325-5832 Telephone Fax +1 800-325-5052 1.4 **Emergency telephone number**

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

## 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

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

Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

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



Warning

| eighar wera   | Warning  |
|---|--|
| Hazard statement(s)<br>H315<br>H319<br>H335                               | Causes skin irritation.<br>Causes serious eye irritation.<br>May cause respiratory irritation.   |
| Precautionary statement(s)<br>P261<br>P264<br>P271<br>P280<br>P302 + P352 | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.<br>Wash skin thoroughly after handling.<br>Use only outdoors or in a well-ventilated area.<br>Wear protective gloves/ eye protection/ face protection.<br>IF ON SKIN: Wash with plenty of soap and water. |
| P304 + P340   | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.   |
| P305 + P351 + P338  | IF IN EYES: Rinse cautiously with water for several minutes. Remove  |

Aldrich - T80489

|             | contact lenses, if present and easy to do. Continue rinsing.                |
|-------------|---|
| P312        | Call a POISON CENTER or doctor/ physician if you feel unwell.               |
| P321        | Specific treatment (see supplemental first aid instructions on this label). |
| 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.                       |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed.            |
| 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

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

| Formula          | : | C <sub>3</sub> H <sub>9</sub> IS |
|------------------|---|----------------------------------|
| Molecular Weight | : | 204.07 g/mol                     |
| CAS-No.          | : | 2181-42-2                        |
| EC-No.           | : | 218-555-4                        |
|                  |   |                                  |

|            | components |
|------------|------------|
| Companyant |            |

| Classification                | Concentration   |  |  |
|-------------------------------|---|--|--|
| Trimethylsulphonium iodide    |   |  |  |
| Skin Irrit. 2; Eye Irrit. 2A; | -   |  |  |
| STOT SE 3; H315, H319,        |   |  |  |
| H335                          |   |  |  |
|                               | Skin Irrit. 2; Eye Irrit. 2A;<br>STOT SE 3; H315, H319, |  |  |

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

# 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this 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. 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

## **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, Sulphur oxides, Hydrogen iodide

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 5.4 Further information

no data available

## 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. 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 Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

# 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection. 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.

Light sensitive.

## 7.3 Specific end use(s)

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

**Components with workplace control parameters** Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

#### **Eye/face protection**

Safety glasses with side-shields conforming to EN166 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.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body Protection**

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

| a) | Appearance   | Form: crystalline<br>Colour: colourless                 |
|----|--|---|
| b) | Odour  | no data available                                       |
| c) | Odour Threshold                                    | no data available                                       |
| d) | рН   | no data available                                       |
| e) | Melting point/freezing<br>point                    | Melting point/range: 215 - 220 °C (419 - 428 °F) - lit. |
| f) | Initial boiling point and boiling range            | no data available                                       |
| g) | Flash point  | no data available                                       |
| h) | Evapouration rate                                  | no data available                                       |
| i) | Flammability (solid, gas)                          | no data available                                       |
| j) | Upper/lower<br>flammability or<br>explosive limits | no data available                                       |
| k) | Vapour pressure                                    | no data available                                       |
| I) | Vapour density                                     | no data available                                       |
| m) | Relative density                                   | no data available                                       |
| n) | Water solubility                                   | no data available                                       |
| o) | Partition coefficient: n-<br>octanol/water         | no data available                                       |
| p) | Auto-ignition<br>temperature                       | no data available                                       |
| q) | Decomposition<br>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

no data available

# **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 In the event of fire: see section 5

# 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute toxicity no data available

Dermal: no data available

no data available

Skin corrosion/irritation Serious eye damage/eye irritation Eye irritation

# Respiratory or skin sensitisation no data available

Germ cell mutagenicity no data available

#### Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component 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 identified as a carcinogen or potential carcinogen by OSHA.

## **Reproductive toxicity**

no data available

no data available

**Specific target organ toxicity - single exposure** Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard

no data available Aldrich - T80489

#### **Additional Information**

**RTECS:** Not available

Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

## **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

no data available

## **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.

## **Contaminated packaging**

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

## **15. REGULATORY INFORMATION**

## SARA 302 Components

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

## SARA 313 Components

SARA 313: 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

Aldrich - T80489

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

| Pennsylvania Right To Know Components | CAS-No.   | Revision Date |
|---------------------------------------|-----------|---------------|
| Trimethylsulphonium iodide            | 2181-42-2 | Revision Date |
| New Jersey Right To Know Components   | CAS-No.   | Revision Date |
| Trimethylsulphonium iodide            | 2181-42-2 | Revision Date |

#### California Prop. 65 Components

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

#### **16. OTHER INFORMATION**

#### Full text of H-Statements referred to under sections 2 and 3.

| Eye Irrit.  | Eye irritation                                   |
|-------------|--|
| H315        | Causes skin irritation.                          |
| H319        | Causes serious eye irritation.                   |
| H335        | May cause respiratory irritation.                |
| Skin Irrit. | Skin irritation                                  |
| STOT SE     | Specific target organ toxicity - single exposure |

#### **HMIS Rating**

| Health hazard:         |   |
|------------------------|---|
| Chronic Health Hazard: | * |
| Flammability:          | 0 |
| Physical Hazard        | 0 |
| NFPA Rating            |   |
| Health hazard:         | 2 |
|                        | ~ |

| Fire Hazard:       | 0 |
|--------------------|---|
| Reactivity Hazard: | 0 |

#### **Further information**

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#### **Preparation Information**

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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