

sigma-aldrich.com

SAFETY DATA SHEET

Version 5.7

Revision Date 02/03/2015 Print Date 10/09/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name

Dimethyl trisulfide

Product Number Brand

: W327506 : Aldrich

CAS-No.

3658-80-8

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

: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company

Sigma-Aldrich 3050 Spruce Street

SAINT LOUIS MO 63103

Telephone +1 800-325-5832 +1 800-325-5052 Fax

Emergency telephone number

Emergency Phone #

: (314) 776-6555

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Flammable liquids (Category 3), H226 Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Eve 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

Hazard statement(s)

Flammable liquid and vapour.

H226 H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces, - No smoking,

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P233 P240 P241 P241 Aldrich - W327506

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P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge.	
P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.	
P271 Use only outdoors or in a well-ventilated area.	
P280 Wear protective gloves/ protective clothing/ eye protection/ face	
protection.	
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if	you
feel unwell.	
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contamina	tea
clothing. Rinse skin with water/ shower.	
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a posit	ion
comfortable for breathing.	
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remo	ove
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 la	abel).
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.	
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foar	n for
extinction.	
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.	
P403 + P235 Store in a well-ventilated place. Keep cool.	
P405 Store locked up.	
P501 Dispose of contents/ container to an approved waste disposal plan	ıt.

Hazards not otherwise classified (HNOC) or not covered by GHS

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Formula 126.26 g/mol Molecular weight 3658-80-8 CAS-No. EC-No. 222-910-9

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Component	Classification	Concentration
Dimethyl trisulphide		
	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H226, H302, H315. H319. H335	<= 100 %

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 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,

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In case of eve contact

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

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person, Rinse mouth with water, Consult a physician.

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

Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special hazards arising from the substance or mixture

Carbon oxides, Sulphur oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary,

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up 6.3

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

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

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Store in cool place. 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.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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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

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).

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.

Complete suit protecting against chemicals, Flame retardant antistatic protective 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

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Form: liquid b) Odour No data available c) Odour Threshold No data available d) pH No data available Melting point/freezing Melting point/range: -68 °C (-90 °F) - lit.

Initial boiling point and

point

58 °C (136 °F) at 20 hPa (15 mmHg) - lit.

boiling range

g) Flash point 56 °C (133 °F) - closed cup

 h) Evaporation rate No data available Flammability (solid, gas) No data available

Upper/lower flammability or explosive limits No data available

k) Vapour pressure

No data available Vapour density No data available

m) Relative density 1,202 g/cm3 at 25 °C (77 °F) n) Water solubility

o) Partition coefficient: noctanol/water

No data available No data available

p) Auto-ignition

No data available

temperature q) Decomposition

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No data available

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temperature

Viscosity

No data available

Explosive properties

No data available

Oxidizing properties

No data available

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

Heat, flames and sparks.

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

No data available

Serious eye damage/eye irritation

No data available

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

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No data available

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No data available

Asplration hazard

No data available

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

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

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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)

UN number: 1993 Class: 3

Packing group: III

Proper shipping name: Flammable liquids, n.o.s. (Dimethyl trisulphide)

Poison Inhalation Hazard: No

UN number: 1993

Class: 3

Packing group: III

EMS-No: F-E, S-E

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Dimethyl trisulphide)

UN number: 1993

Class: 3

Packing group: III

Proper shipping name: Flammable liquid, n.o.s. (Dimethyl trisulphide)

15. REGULATORY INFORMATION

SARA 302 Components

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

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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

Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components

Dimethyl trisulphide

CAS-No. 3658-80-8 Revision Date

New Jersey Right To Know Components

CAS-No.

Dimethyl trisulphide

3658-80-8

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.

Acute Tox.

Acute toxicity

Eye Irrit. Flam, Liq.

Eye irritation Flammable liquids

H226

Flammable liquid and vapour.

H302

Harmful if swallowed.

Causes skin irritation.

H315

H319 H335 Causes serious eye irritation.

May cause respiratory irritation.

Skin Irrit.

Skin irritation 2

HMIS Rating

Health hazard:

Chronic Health Hazard:

Flammability:

Physical Hazard

Ω

NFPA Rating

Health hazard:

2

Fire Hazard: Reactivity Hazard:

2 0

Further information

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Preparation Information

Sigma-Aldrich Corporation

Product Safety - Americas Region

1-800-521-8956

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