Chemical Safety Data Sheet MSDS / SDS

2-TRIMETHYLSILYL-1,3-DITHIANE

Revision Date:2025-02-01 Revision Number:1

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

Product identifier

Product name	: 2-TRIMETHYLSILYL-1,3-DITHIANE				
CBnumber	: CB2671400				
CAS	: 13411-42-2				
EINECS Number	: 236-504-4				
Synonyms	: 2-trimethylsilyl-1,3-dithiane				
Relevant identified uses of the substance or mixture and uses advised against					
Relevant identified uses	: For R&D use only. Not for medicinal, household or other use.				
Uses advised against	: none				
Company Identification					
Company	: Chemicalbook				
Address	: Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing				
Telephone	: 010-86108875				

SECTION 2: Hazards identification

GHS Label elements, including precautionary statements

Signal word no data available				
Hazard statement(s)				
no data available				
Prevention				
no data available				
Response				
no data available				
Storage				
no data available				
Disposal				
no data available				

SECTION 3: Composition/information on ingredients

1

Substance

: 2-TRIMETHYLSILYL-1,3-DITHIANE
: 2-trimethylsilyl-1,3-dithiane
: 13411-42-2
: 236-504-4
: C7H16S2Si
: 192.42

SECTION 4: First aid measures

Description of first aid measures

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

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

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

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

Special hazards arising from the substance or mixture

Carbon oxides, Sulphur oxides, silicon oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

NFPA 704





HEALTH	0	Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible materials
FIRE	0	Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. Materials that will not burn in air when exposed to a temperature of 820 °C (1,500 °F) for a period of 5 minutes.(e.g. Carbon tetrachloride)
REACT	0	Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, N2)
spec. Haz.		

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. For personal protection see section 8.

Environmental precautions

No special environmental precautions required.

Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

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.

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

control parameter

Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

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). 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.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. 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

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

SECTION 9: Physical and chemical properties

Information on basic physicochemical properties

Appearance	light yellow clear, liquid
Odour	Stench.
Odour Threshold	No data available
рН	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	54 - 55 °C at 0,23 hPa - lit.
Flash point	96 °C - closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive	No data available
limits	
Vapour pressure	No data available
Vapour density	No data available

1,014 g/cm3 at 25 °C
Insol H2O; sol organic solvents.
No data available
-

Other safety information

No data available

SECTION 10: Stability and reactivity

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides, silicon oxides Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

- Acute toxicity 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. **Reproductive toxicity** No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available **Additional Information RTECS:** Not available Nausea, Headache, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

No data available

SECTION 13: Disposal considerations

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

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UN number ADR/RID:IMDG:IATA: UN number ADR/RID:IMDG:IATA:ADR/RID:IMDG:IATA: IATA: UN number ADR/RID:IMDG:IATA:ADR/RID:IMDG:IATA:

UN number

ADR/RID: 3272 IMDG: 3272 IATA: 3272 ADR/RID: - IMDG: - IATA: -ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: 1248 IMDG: 1248 IATA: 1248 ADR/RID: 2020 IMDG: 2020 IATA: 2020 ADR/RID: 1989 IMDG: 1989 IATA: 1989 ADR/RID: 1993 IMDG: 1993 IATA: 1993 ADR/RID: 1231 IMDG: 1231 IATA: 1231 ADR/RID: - IMDG: - IATA: -ADR/RID: PHOSPHORUS, AMORPHOUS IMDG: PHOSPHORUS, AMORPHOUS IATA: Phosphorus, amorphous

Transport hazard class(es)

ADR/RID: 4.1 IMDG: 4.1 IATA: 4.1 ADR/RID: - IMDG: - IATA: -ADR/RID: METHYL ACETATE, SOLUTION IMDG: METHYL ACETATE, SOLUTION IATA: Methyl acetate, SOLUTION ADR/RID: FLAMMABLE LIQUID, N.O.S. (1-Chloroheptane) IMDG: FLAMMABLE LIQUID, N.O.S. (1-Chloroheptane) IATA: Flammable liquid, n.o.s. (1-Chloroheptane) ADR/RID: ALDEHYDES, N.O.S. (Isovaleraldehyde) IMDG: ALDEHYDES, N.O.S. (Isovaleraldehyde) IATA: Aldehydes, n.o.s. (Isovaleraldehyde) ADR/RID: CHLOROPHENOLS, SOLID IMDG: CHLOROPHENOLS, SOLID IATA: Chlorophenols, solid ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods ADR/RID: METHYL PROPIONATE IMDG: METHYL PROPIONATE IATA: Methyl propionate ADR/RID: III IMDG: III IATA: III ADR/RID: - IMDG: - IATA: -ADR/RID: ESTERS, N.O.S. (Methyl 1H-pyrrole-1-carboxylate) IMDG: ESTERS, N.O.S. (Methyl 1H-pyrrole-1-carboxylate) IATA: Esters, n.o.s.

Chemical Book

(Methyl 1H-pyrrole-1-carboxylate)

Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: no IMDG Marine pollutant: no IATA: no ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: - IMDG: - IATA: -ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1 ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: 1 IMDG: 1 IATA: 11

Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: no No data available ADR/RID: II IMDG: II IATA: II ADR/RID: III IMDG: III IATA: III ADR/RID: III IMDG: III IATA: II ADR/RID: III IMDG: III IATA: III ADR/RID: III IMDG: III IATA: III No data available ADR/RID: III IMDG: III IATA: III

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no Special precautions for user No data available ADR/RID: no IMDG Marine pollutant: no IATA: no ADR/RID: no IMDG Marine pollutant: yes IATA: no ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user

No data available

- No data available
- No data available
- No data available
- No data available
- No data available

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations on the Safety Management of Hazardous Chemicals China Catalog of Hazardous chemicals 2015:Not Listed. website: https://www.mem.gov.cn/ Measures for Environmental Management of New Chemical Substances Philippines Inventory of Chemicals and Chemical Substances (PICCS):Not Listed. website: https://emb.gov.ph/ Vietnam National Chemical Inventory:Not Listed. website: https://chemicaldata.gov.vn/ New Zealand Inventory of Chemicals (NZIoC):Not Listed. website: https://www.epa.govt.nz/ Chinese Chemical Inventory of Existing Chemical Substances (China IECSC):Not Listed. website: https://www.mee.gov.cn/ Korea Existing Chemicals List (KECL):Not Listed. website: http://ncis.nier.go.kr United States Toxic Substances Control Act (TSCA) Inventory:Not Listed. website: https://www.epa.gov/ European Inventory of Existing Commercial Chemical Substances (EINECS):Listed. website: https://echa.europa.eu/ EC Inventory:Listed.

SECTION 16: Other information

Abbreviations and acronyms

CAS: Chemical Abstracts Service ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- [1] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- [2] ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- [3] ECHA European Chemicals Agency, website: https://echa.europa.eu/
- [4] eChemPortal The Global Portal to Information on Chemical Substances by OECD, website:

http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

- [5] ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- [6] Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- [7] HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- [8] IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- [9] IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- [10] Sigma-Aldrich, website: https://www.sigmaaldrich.com/

Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.