

SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: Methyl disulfide 98%

Product Code: M16370

Supplier: Pfaltz & Bauer, Inc.

172 E. Aurora Street

Waterbury, CT 06708 USA

Phone: 203-574-0075

FAX: 203-574-3181

Emergency Phone: INFOTRAC, US: 1-800-535-5053

INFOTRAC, INTERNATIONAL: +1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazard: Environmentally hazardous, Flammable liquid, In use may form

flammable/explosive vapour-air mixture, Irritant, Respiratory irritant,

Toxic

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May

be harmful by ingestion and skin absorption, toxic by inhalation.

Chronic Health Hazard: Target organ effect

HMIS Rating: H: 2 F: 3 P: 0

NFPA Rating: H: 2 F: 3 R: 0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): GHS Classification in accordance with Regulation (EC) No 1272/2008:

Acute toxicity, dermal (Category 4), H312

Acute toxicity, inhalation (Category 3), H331

Acute toxicity, oral (Category 4), H302

Flammable liquids (Category 2), H225

Hazardous to the aquatic environment, chronic toxicity (Category 2), H411

Serious eye damage/eye irritation (Category 2A), H319

Skin corrosion/irritation (Category 2), H315

Specific target organ toxicity, single exposure (Category 2), H371

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335

<u>Pictogram:</u>









Signal Word:

Danger

Hazard Statement(s): H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation. H371 May cause damage to organs.

H411 Toxic to aquatic life with long-lasting effects.

Precautionary Statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces. — No

smoking.

P240 Ground/bond container and receiving equipment. P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P273 Avoid release to the environment.

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.

P302+P352 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 contact lenses, if present and easy to do. Continue

rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly

closed.

Supplemental Statement(s): EUH018 In use may form flammable/explosive vapour-air mixture

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name: Methyl disulfide 98%

<u>Synonyms:</u> Dimethyl disulfide

CAS Number: 624-92-0

MDL Number: MFCD00008561

EINECS Number: 210-871-0

Beilstein Registry Number: 1730824

Molecular Formula: C₂H₆S₂

Molecular Weight: 94.20

Content: As specified in product name.

SECTION 4: FIRST AID MEASURES

Eve Contact: Flush eyes with large amounts of water for fifteen minutes. Separate

eyelids with fingers. If irritation persists, seek medical attention.

Skin Contact: Wash skin with soap and water. If irritation persists, seek medical

attention.

<u>Ingestion:</u> Do not induce vomiting. Seek medical attention.

Inhalation: Move to a fresh air environment. Contact a physician if breathing

becomes difficult.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point (°C):

Explosion Limits: Lower, % by volume: 1.1

Upper, % by volume: 16

<u>Auto Ignition</u>

Not Available

Temperature (°C):

<u>Extinguishing Media:</u> Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water

spray

<u>Protective Equipment:</u> Wear self-contained respirator and fully protective impervious suit.

<u>Specific Hazards:</u> May emit hazardous fumes under fire conditions. In use may form

flammable/explosive mixure.

SECTION 6: ACCIDENTAL RELEASE MEASURES

<u>Personal Protection:</u> Wear a self-contained breathing apparatus, rubber boots and gloves,

and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and

contact proper authorities if needed. Keep unprotected persons away. Environmental Protection: Keep spills out of sewers and bodies of water. Dike and contain the spill

with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash

spill site after material pickup is complete.

SECTION 7: HANDLING and STORAGE

Handling and Storage: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and

eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources

away.

Store in a tightly closed container in a dry, well-ventilated place.

Sensitivities: Air

Storage Temperature (°C): 15 to 30

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Engineering Controls:</u> Use product in a well ventilated area or under a fume hood. Use proper

lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.

Eye Protection: Wear appropriate protective eyeglass or chemical safety goggles. Make

sure that there is an eyewash station in your vicinity.

<u>Skin Protection:</u> Wear impervious gloves and protective clothing.

Respiratory Protection: Use a NIOSH approved respirator when exposure limits are exceeded or

if irritation or other symptoms are experienced.

Exposure Limits: <u>Country Source Type Value</u>

USA ACGIH TWA 0.5 ppm

USA OSHA STEL Not Available

USA OSHA PEL Not Available

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Appearance: Clear light yellow liquid

Odor: Stench

Odor Threshold: Not Available

Flash Point (°C): 15

Auto Ignition
Temperature (°C):

Not Available

UEL % by Volume:

16

LEL % by Volume:

1.1

Melting Point (°C):

-85

Boiling Point (°C):

108-109

Evaporation Rate:

Not Available

pH Value:

Not Available

Density (q/cm³):

1.046

Refractive Index (n²⁰D):

1.525

Viscosity:

Not Available

Solubility in Water:

Not Available

Solubility in Other:

Not Available

Vapor Pressure (mmHq):

17

Vapor Density (Air=1):

3.24

SECTION 10: STABILITY and REACTIVITY

Stability:

Stable under normal temperatures and pressures.

Incompatibility:

Strong bases, Strong oxidizing agents, Strong reducing agents

Reactivity:

Product may react with incompatible materials to release other

hazardous substances.

Conditions to Avoid:

Heat, flame, sparks, other ignition sources.

<u>Hazardous</u>

Carbon oxides, Sulfur oxides

Decomposition Products:

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Reference:

JO1927500

<u>Target Organs:</u> Blood, Liver

Toxicity Data: Oral Rat LD₅₀ mg/kg: 300.00

Dermal Rabbit LD₅₀ mg/kg: 2000.00 Inhalation Rat LC₅₀, mg/m3 - h: 1471.00 - 4

<u>Carcinogenicity:</u> National Toxicology Program (NTP) listed:

Not Available

International Agency for Research on Cancer (IARC) listed: Not

Available

Potential Symptoms: Not Available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Water flea LC₅₀: 7.00 mg/l - 7.00 hrs.

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

<u>DOT Shipping Name:</u> Dimethyl Disulfide

DOT UN Number: UN2381

DOT Hazard Class: Class 3, 6.1

DOT Packing Group: PGII

<u>IMDG Shipping Name:</u> Dimethyl Disulfide

IMDG UN Number: UN2381

IMDG Hazard Class: Class 3,6.1

IMDG Packing Group: PGII

Marine Pollutant: No

<u>IATA Shipping Name:</u> Not permitted for air transport

#Error

#Error

SECTION 15: REGULATORY INFORMATION

United States

Toxic Substance Control Act (TSCA) listed: Yes

Superfund Amendments and Reauthorization Act (SARA 302) listed: No

Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No

Superfund Amendments and Reauthorization Act (SARA 313) listed: No

European Union

European Inventory of Existing Chemical Substances (EINECS): 210-871-0

GHS Classification in accordance with Regulation (EC) No 1272/2008: Yes

Canada

Canadian Domestic Substances List (DSL) listed: Yes

Canadian Non-Domestic Substances List (NDSL) listed: No

SECTION 16: OTHER INFORMATION

Date Prepared: 6/21/2023

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgement to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.