

# Safety Data Sheet per OSHA HazCom 2012



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# Product name: Ethyl methyl disulfide

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4 First-aid measures Description of first aid measures	
General information Immediately remove any clothing soiled by the product. Remove breathing apparatus only after contaminated clothing has been completely removed.	
In case of irregular breathing or respiratory arrest provide artificial respiration. After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.	
Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures Extinguishing media	
Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Advice for firefighters	
Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
<b>Personal precautions, protective equipment and emergency procedures</b> Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
Keep away from ignition sources <b>Environmental precautions:</b> Do not allow material to be released to the environment without proper governmental permits.	
Methods and material for containment and cleaning up: Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13.	
Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. <b>Prevention of secondary hazards:</b> Keep away from ignition sources.	
<b>Reference to other sections</b> See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage Handling	
<b>Precautions for safe handling</b> Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.	
Ensure good ventilation at the workplace. Open and handle container with care. Information about protection against explosions and fires:	
Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Keep ignition sources away.	
Conditions for safe storage, including any incompatibilities Storage	
Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions:	
Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.	
8 Exposure controls/personal protection	
Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data	
Exposure controls Personal protective equipment	
<b>General protective and hygienic measures</b> The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.	
Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Store protective clothing separately.	
Do not inhale gases / fumes / aerosols. Avoid contact with the eyes. Avoid contact with the eyes and skin.	
Maintain an ergonomically appropriate working environment. Breathing equipment: Use self-contained respiratory protective device in emergency situations.	
<b>Protection of hands:</b> Impervious gloves Check protective gloves prior to each use for their proper condition.	(Ocartal and a state
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(Contd. of page 2) The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Penetration time of glove material (in minutes)** Not determined **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

9 Physical and chemical properties		
Information on basic physical and chemical properties		
General Information Appearance:		
'Form:	Liquid	
Color:	Colorless	
Odor: Odor threshold:	Stench Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	65-67 °C (149-153 °F)	
Sublimation temperature / start:	Not determined a company of the second s	
Flash point:	22 °C (72 °F)	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined	
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.	
Explosion limits:		
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not determined	
Density at 20 °C (68 °F):	1.023 g/cm <sup>3</sup> (8.537 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate Solubility in / Miscibility with	Not determined.	
Water:	Not miscible or difficult to mix	
Partition coefficient (n-octanol/water)		
Viscosity:		
dynamic: kinematic:	Not determined. Not determined.	
Other information	No further relevant information available.	

### 10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOX) 11 Toxicological information Information on toxicological effects Acute toxicity: Fatal if inhaled. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information

Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Avoid transfer into the environment. Results of PBT and vPvB assessment **PBT:** Not applicable. **vPvB:** Not applicable Other adverse effects No further relevant information available. 13 Disposal considerations

Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal.

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### Uncleaned packagings:

Uncleaned packagings: Recommendation: Disposal must be made according to official reg	ulations.
4 Transport information	
UN-Number DOT, IMDG, IATA	UN1992
UN proper shipping name DOT	Elammable liquida tavia n.a.a. (Ethyl mathyl digylfida)
IMDG, IATA	Flammable liquids, toxic, n.o.s. (Ethyl methyl disulfide) FLAMMABLE LIQUID, TOXIC, N.O.S. (Ethyl methyl disulfide)
Transport hazard class(es)	
Class Label	3 Flammable liquids. 3+6.1
Class Label IMDG, IATA	3 (FT1) Flammable liquids 3+6.1
Class Label	3 Flammable liquids. 3+6.1
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user EMS Number:	Warning: Flammable liquids F-E,S-D
Transport in bulk according to Annex II of MARPOL73/78 and th	
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1992, Flammable liquids, toxic, n.o.s. (Ethyl methyl disulfide), 3 (6.1), II
Hazard pictograms GHS02 GHS06	
Signal word Danger Hazard statements H225 Highly flammable liquid and vapor. H330 Fatal if inhaled. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements	rfaces. No smoking
P300 Specific treatment is urgent (see on this label). P405 Store locked up. P501 Dispose of contents/container in accordance with	rfaces. No smoking. minated clothing. Rinse skin with water/shower. ral minutes. Remove contact lenses, if present and easy to do. Continue rinsing. n local/regional/national/international regulations.
National regulations This product is not listed in the U.S. Environmental Protection Agend to research and development only. This product must be used by or product must not be used for commercial purposes or in formulation. SARA Section 313 (specific toxic chemical listings) Substance is California Proposition 65	cy Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric directly under the supervision of a technically qualified individual as defined by TSCA. This s for commercial purposes. s not listed.
Prop 65 - Chemicals known to cause cancer Substance is not list Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qu Other regulations, limitations and prohibitive regulations	
Substance of Very High Concern (SVHC) according to the REAC The conditions of restrictions according to Article 67 and Anne: market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation f	CH Regulations (EC) No. 1907/2006. Substance is not listed. x XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t for use) Substance is not listed.
<b>Chemical safety assessment:</b> A Chemical Safety Assessment has <b>6 Other information</b>	not been carried out.

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -

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USA

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- Abbreviations and acronyms:

   RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

   IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

   ICAO: International Civil Aviation Organization

   ICAO: International Civil Aviation Organization

   ICAO: The chnical Instructions by the "International Civil Aviation Organization" (ICAO)

   ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

   IDDG: International Air Transport Association

   CAO: T: US Department of Transport Association

   CAS: Chemical Abstracts Service (division of the American Chemical Society)

   HMIS: Hazardous Materials Identification System (USA)

   VHMIS: Workplace Hazardous Materials Information System (Canada)

   L500: Lethal dose, 50 percent

   L900: Very Persistent and very Bioaccumulative

   ACGIH: American Alstriet word Hadministration (USA)

   NTP: National Toxicology Program (USA)

   IAF: International Air: Transport Administration (USA)

   IAF: International Air: Transport Administration (USA)

   IAF: International Air: Transport Administration (USA)

   IAF: International Air: Transport Association

   IAF: International