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	Version 1
1 Identification	
Product identifier	
Product name: <u>Ethyl methyl sulfide</u> Stock number: L02859	
CAS Number:	
624-89-5 EC number:	
210-868-4 Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660_	
Fax: 800-322-4757	
Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0	0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS02 Flame	
Flam. Liq. 2 H225 Highly flammable liquid and vapor. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS02	
Signal word Danger Hazard statements	
H225 Highly flammable liquid and vapor. Precautionary statements	
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapors/spray	
P243 Take precautionary measures against static discharge. P403 Store in a well-ventilated place.	
WHMIS classification B2 - Flammable liquid	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 3	
REACTIVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances	
CAS# Description: 624-89-5 Ethyl methyl sulfide	
Concentration: ≤100% Identification number(s):	
EC number: 210-868-4 ´	
4 First-aid measures	
Description of first aid measures After inhalation Supply for the first serviced arriving antificial receivation. Keep patient warm	
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 immédiate 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.	(Contd. on page 2)
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Product name: Ethyl methyl sulfide

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media Extinguishing media Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water. Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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 Sulfur oxides (SOx) Hydrogen sulfide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear self-contained respirator.

Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: 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). Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. Reference to other sections See Section 7 for information on safe handling See Section 7 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC.1: Substance is not listed PAC-1: Substance is not listed. PAC-2: Substance is not listed. PAC-3: Substance is not listed.

7 Handling and storage

Handling Precautions for safe handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. 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: Store in a cool location. 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data

Additional information: No data
Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use suitable respirator when high concentrations are present.
Recommended filter device for short term use:
Use a respirator with multi-purpose combination (US) or type AXBEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to
determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or
CEN (EU).
Protection of hands:
Impervious gloves

Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. 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 with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.

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9 Physical and chemical propertie	25	
Information on basic physical and cl		
General Information		
Appearance: Form:	Liquid	
Odor:	Liguid Stench	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-106 °C (-159 °F)	
Boiling point/Boiling range: Sublimation temperature / start:	66-67 °C (151-153 °F) Not determined	
Flash point:	-15 °C (5 °F)	
Flammability (solid, gaseous)	Not defermíned.	
Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined 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):	0.841 g/cm³ (7.018 lbs/gal)	
Relative density Vapor density	Not determined. Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water	Not miscible or difficult to mix r): Not determined	
Viscosity:		
dynamic:	Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Hydrogen sulfide		
Reproductive foxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known.	se irritation se irritation nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No further Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant	relevant information available. ormation available. the environment without proper governmental permits. nt	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local	or national regulations to ensure proper disposal	

Recommendation Consult state, local or national regulations to ensure proper disposal. **Uncleaned packagings: Recommendation:** Disposal must be made according to official regulations.

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Transport information	
UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name	
DOT ADR	Flammable liquids, n.o.s. (Ethyl methyl sulfide) 1993 Flammable liquids, n.o.s., special provision 640D (Ethyl methyl sulfide) FLAMMABLE LIQUID, N.O.S. (Ethyl methyl sulfide)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Ethyl methyl sulfide)
Transport hazard class(es)	
Class Label	3 Flammable liquids 3
ADR	0
Class Label	3 (F1) Flammable liquids 3
MDG, IATA	3
Class Label	3 Flammable liquids
	3
Packing group DOT, ADR, IMDG, IATA	ll
Environmental hazards: Marine pollutant (IMDG):	No
Special precautions for user	Warning: Flammable liquids
EMS Number: Stowage Category	F-E, <u>S-Ĕ</u> B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	de Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 5 L
Marine Pollutant (DOT):	On cargo aircraft only: 60 L No
IMDG	
Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2
Excepted quantities (Ex)	Code. E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	Maximum net quantity per outer packaging: 500 ml UN 1993 FLAMMABLE LIQUIDS, N.O.S., SPECIAL PROVISION 640D (ETHYL
	METHYL SULFIDE), 3, 11
Regulatory information	
• •	substance or mixture
Safety, health and environmental regulations/legislation specific for the s GHS label elements The product is classified and labeled in accordance with Hazard pictograms	2 29 CFR 1910 (OSHA HCS)
Hazard pictograms	
GHS02	
Signal word Danger	
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All components of this product are listed in the U.S. Environmental Protection <i>J</i>	T i O I Grand Order I Ant Chaminal autotanaa Inventory
All components of this product are listed in the U.S. Environmental Projection	Agency Toxic Substances Control Act Chemical substance inventory.

P403 Store in a weil-ventilated place. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. 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. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. (Cart on an of Safety assessment: A Chemical Safety Assessment has not been carried out.

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16 Other information

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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Initiation to ensure proper use and protect the health and safety of employees. This montation is furnished without warranty, and any use conformance with this 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/Revision: Print date, revision date and version number are in the header of each page.
 Abbreviations and acronyms:
 Rich Regiment 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 Civil Aviation Organisation" (IATA)
 ICAO: International Waviation Organisation
 ICAO: The rechnical Instructions by the "International Civil Aviation Organisation" (ICAO)
 ADR: Accord européen us le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Air Transport Association
 IATA: International King Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 HMIS: Workplace Hazardous Materials Information System (Canada)
 LC50: Lethal donecumulative and Toxic
 SVHG: Substances of Very High Concern
 VHS: way persistent alis dentification, System (USA)
 VHS: way persistent, Bioaccumulative and Toxic
 SVHG: Substances of Governmental Houstrial Hygienists (USA)
 OSHA: Occupational Safety and Health Administration (USA)
 MTP: National Toxicology Program (USA)
 MTP: National Toxicolo