

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: 3-(Methylthio)propionic acid Stock number: L12861 CAS Number: 646-01-5 EC number: 211-460-9 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. Inerrito Fisher Scheman C. 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) 928-0789. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) EZ GHS05 Corrosion Skin Corr. 1C H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. 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 E.F. GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/... Precautionary statements P280 Wear pro WHMIS classification D2B - Toxic material causing other toxic effects E - Corrosive material 124 Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 2 Flammability = 1 Physical Hazard = 1 2 1 ACTIVITY 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: 646-01-5 3-(Methylthio)propionic acid Identification number(s): EC number: 211-460-9 4 First-aid measures Description of first aid measures General information Immediately remove any clothing soiled by the product. 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. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. (Contd. on page 2)

Product name: 3-(Methylthio)propionic acid

Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents 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) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections 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 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: No information known. 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. Store away from strong bases. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. 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 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. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. 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: Tightly sealed goggles Full face protection	
Body protection: Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information Appearance:	
Appearance: Form: Liquid	
Color: Colorless Odor: Unpleasant	
Odor threshold: Not determined.	
pH-value: Not determined.	(Contd. on page 3)
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	(C	contd. of page 2
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	ca 16 °C (ca 61 °F) 244-247 °C (471-477 °F) Not determined	
Flammability (solid, gaseous) Ignition temperature:	104 °C (219 °F) Not determined. Not determined Not determined	
Auto igniting:	Not determined.	
Explosion limits:	Product does not present an explosion hazard. Not determined	
Vapor pressure:	Not determined Not determined 1.16 g/cm ³ (9.68 lbs/gal)	
Relative density Vapor density	Not determined.	
Solubility in / Miscibility with	Not determined. Not determined	
Partition coefficient (n-octanol/water): Viscosity: dynamic:	Not determined.	
kinematic:	Not determined. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agents Bases Hazardous decomposition products:	o be avoided: Decomposition will not occur if used and stored according to specifications. dangerous reactions known	
Carbon monoxide and carbon dioxide Sulfur oxides (SOx)		
LD/LC50 values that are relevant for cl Skin irritation or corrosion: Causes ser Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data c Reproductive toxicity: No effects known Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects	vere skin burns. ious eye damage. wm. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. repeated exposure: No effects known. single exposure: No effects known.	
Do not allow undiluted product or large que Avoid transfer into the environment	er relevant information available. elevant information available. nation available. ne environment without proper governmental permits. uantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releval		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be ma	r national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information		
UN-Number DOT, IMDG, IATA UN proper shipping name	UN3265	
UN proper shipping name DOT IMDG, IATA	Corrosive liquid, acidic, organic, n.o.s. (3-(Methylthio)propionic acid) CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (3-(Methylthio)prop (Ci	ionic acid)

(Contd. on page 4)

	Reviewed on 04/07/20
roduct name: 3-(Methylthio)propionic acid	
Transport hazard class(es)	(Contd. of page
DOT	
(I)	
Class Label	8 Corrosive substances.
Class Label	8 (C3) Corrosive substances
IMDG, IATA	o
•	
Class Label	8 Corrosive substances. 8
Packing group DOT, IMDG, IATA	<i>III</i>
Environmental hazards:	Not applicable.
Special precautions for user Segregation groups	Warning: Corrosive substances Acids
Transport in bulk according to Annex II of MARPOL73/78	
Transport/Additional information:	
DOT Marine Pollutant (DOT):	Νο
UN "Model Regulation":	UN3265, Corrosive liquid, acidic, organic, n.o.s. (3-(Methylthio)propionic acid), 8
Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P280 Wear protective gloves/protective clothing/ P305+P351+P338 IF IN EYES: Rinse cautiously with water fo	/eye protection/face protection. or several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary statements P280 Wear protective gloves/protective clothing/ P305+P351+P338 IF IN EYES: Rinse cautiously with water for P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doct National regulations This product is not listed in the U.S. Environmental Protection to research and development only. This product must be used product must not be used for commercial purposes or in formu SARA Section 313 (specific toxic chemical listings) Substa California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not list Information about limitation of use: For use only by technic	or/ Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric d by or directly under the supervision of a technically qualified individual as defined by TSCA. This ulations for commercial purposes. ance is not listed. not listed. listed. ted. ted. sally qualified individuals.
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