

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: 1-Methylpiperidine-2-methanol Stock number: B22187, L12929 **CAS Number:** 20845-34-5 EC number: 244-078-6 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) ! GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. H227 Combustible liquid. 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 ! GHS07 Signal word Warning Hazard statements H227 Combustible liquid. H217 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P210

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

 P261
 Avoid breathing dust/fume/gas/mist/vapours/spray.

 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.

 P405
 Store locked up.

 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification B3 - Combustible liquid D2B - Toxic material causing other toxic effects Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1 Flammability = 2 Flammability = 2 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: 20845_34-5 1-Methylpiperidine-2-methanol Identification number(s): EC number: 244-078-ò

(Contd. on page 2)

USA

Product name: 1-Methylpiperidine-2-methanol		
	(Contd. of page 1)	
 4 First-aid measures Description of first aid measures 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 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 Nitrogen oxides (NOx) Advice for firefighters Protective equipment: 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 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). 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 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. Prevent formation of aerosols. Information about protection against explosions and fires: 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 General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and stin. 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. Protection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Protection of suitable gloves not only depends on the material, but also on quality. Protection: Safety glasses Body protection: Safety glasses		
9 Physical and chemical properties		
Information on basic physical and chemical properties General Information Appearance: Form: Liquid Odor: Not determined		
	(Contd. on page 3)	

Product name: 1-Methylpiperidine-2-methanol (Contd. of page 2) Odor threshold: Not determined. pH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined 79-80 °C (174-176 °F) (7 mmHg) Not determined Flash point: 81 °C (178 °F) Flammobility (solid, gaseous) Ignition temperature: Decomposition temperature: Not determinéd Not determined Not determined Auto igniting: Not determined Danger of explosion: Explosion limits: Product does not present an explosion hazard. Not determined Not determined Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Not determined 0.894 g/cm³ (7.46 lbs/gal) Not determined. Not determined. Evaporation rate Solubility in / Miscibility with Not determined. Water Not determined Partition coefficient (n-octanol/water): Not determined. Viscosity. dynamic: Not determined. kinematic: Other information Not determined. 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 horizon Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides 11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Example 2017 Examp 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. 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. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. 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. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information Not a hazardous material for transportation **UN-Number** DOT, IMDG, IATA None UN proper shipping name DOT, IMDG, IATA None

(Contd. on page 4)

	Reviewed on 05/16/2006
Product name: 1-Methylpiperidine-2-methanol	
	(Contd. of page 3)
Transport hazard class(es)	
DOT, ADR, IMDG, IATA Class	None
	None
Packing group DOT, IMDG, IATA	None
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/	
Transport/Additional information: DOT	Not dangerous according to the above specifications.
Marine Pollutant (DOT):	No
15 Regulatory information Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled Hazard pictograms	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
 P405 Store locked up. P501 Dispose of contents/container in accord National regulations This product is not listed in the U.S. Environmental Protect to research and development only. This product must be us product must not be used for commercial purposes or in foi SARA Section 313 (specific toxic chemical listings) Sult California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not Information about limitations and prohibitive regulation Substance of Very High Concern (SVHC) according to a The conditions of restrictions according to Article 67 an market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Author Chemical safety assessment: A Chemical Safety Assess 	nours/spray. ing/eye protection/face protection. r for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. dance with local/regional/national/international regulations. tion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted sed by or directly under the supervision of a technically qualified individual as defined by TSCA. This rmulations for commercial purposes. bstance is not listed.
 16 Other information Employers should use this information only as a supplement information to ensure proper use and protect the health and conformatice with this Material Safety Data Sheet, or in cold Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMINS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal done Hazardous Materials Information (USA) WHMIS: Nocupational Safety and Health Administration (USA) WTP: National Toxicology Program (USA) NTP: National Toxicology Program (USA) NTP: National Toxicology Program (USA) NARC: International Jagency for Research on Cancer EPA: Environmental Protection Agency (USA) 	nt to other information gathered by them, and should make independent judgement of suitability of this d safety of employees. This information is furnished without warranty, and any use of the product not in mbination with any other product or process, is the responsibility of the user.