

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: 3-Methylamino-1,2-propanediol Stock number: L12653 **CAS Number:** 40137-22-2 EC number: 254-809-0 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. 1B 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. Precautionary statements P260 Do not b Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects E - Corrosive material of the Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 2 Health (acute effects) = 21 Flammability = 1Physical 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: 40137-22-2 3-Methylamino-1,2-propanediol Identification number(s): EC number: 254-809-0 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. Seek immediate medical advice. (Contd. on page 2)

	Kevie	wed on 12/10/2008
Product name: 3-Methylamino-1,2-p	propanediol	
After swallowing Seek medical treatm Information for doctor Most important symptoms and effect Causes severe skin burns. Causes serious eve damage.		(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon Special hazards arising from the sub If this product is involved in a fire, the fc Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. In dioxide or mixture In the released:	
Methods and material for containment	otected persons away. Illow material to be released to the environment without proper governmental permits. <b>nt and cleaning up:</b> nd, diatomite, acid binders, universal binders, sawdust). aste according to section 13. o special measures required. nandling nal protection equipment.	
Conditions for safe storage, includin Storage Requirements to be met by storerooi	ce. t explosions and fires: No information known. og any incompatibilities ms and receptacles: No special requirements. mmon storage facility: Store away from oxidizing agents. onditions:	
8 Exposure controls/personal prot Additional information about design Properly operating chemical fume hood Control parameters Components with limit values that re Additional information: No data Exposure controls Personal protective equipment General protective and hygienic mea The usual precautionary measures for I Keep away from foodstuffs, beverages Remove all soiled and contaminated clo Wash hands before breaks and at the e Avoid contact with the eyes and skin. Maintain an ergonomically appropriate the Breathing equipment: Use suitable re- Protection of hands: Impervious gloves Check protective gloves prior to each u	tection of technical systems: d designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. equire monitoring at the workplace: Not required. asures handling chemicals should be followed. and feed. othing immediately. end of work. working environment. espirator when high concentrations are present. isse for their proper condition. ly depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. n minutes) Not determined	
9 Physical and chemical properties	is	
Information on basic physical and ch General Information Appearance: Form: Color: Odor: Odor: Odor threshold:		
pH-value:	Not determined.	(Contd. on page 3)

## Product name: 3-Methylamino-1,2-propanediol

Page 3/5 Printing date 11/24/2015 Reviewed on 12/10/2008

Product name: 3-Methylamino-1,2-pi	ropanediol
	(Contd. of page
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 247 °C (477 °F) Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	152 °C (306 °F) Not determined. Not determined Not determined. Not determined.
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.
Lower: Upper: Vapor pressure: Density at 20 °C (68 °F):	Not determined Not determined 1.093 a/cm3/9.121.lbs/gal)
Relative density Vapor density Evaporation rate	1.093 g/cm³ (9.121 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water):	Fully miscible : Not determined.
Viscosity: dynamic: kinematic: Other information	Not determined. 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 ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	t information available.
LD/LC50 values that are relevant for c Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data Reproductive toxicity: No effects know Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects	evere skin burns. rious eye damage. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. <b>- repeated exposure:</b> No effects known. <b>- single exposure:</b> No effects known.
12 Ecological information	
Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inforn Additional ecological information: General notes:	her relevant information available. relevant information available.
Do not allow material to be released to th Do not allow undiluted product or large q Avoid transfer into the environment. <b>Results of PBT and vPvB assessment PBT:</b> Not applicable. <b>vPvB:</b> Not applicable. <b>Other adverse effects</b> No further releva	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be ma Recommended cleansing agent: Wate	or national regulations to ensure proper disposal. nade according to official regulations. er, if necessary with cleansing agents.
14 Transport information	
UN-Number DOT, IMDG, IATA	UN2735
UN proper shipping name DOT IMDG, IATA	Amines, liquid, corrosive, n.o.s. (3-Methylamino-1,2-propanediol) AMINES, LIQUID, CORROSIVE, N.O.S. (3-Methylamino-1,2-propanediol)
	(Contd. on page

(Contd. on page 4)

Product name: 3-Methylamino-1,2-propanediol	
	(Contd. of page 3)
Transport hazard class(es)	
DOT	
	9 Corrective substances
Class Label	8 Corrosive substances.
Class Label	8 (C7) Corrosive substances 8
IMDG, IATA	
(E)	
Class Label	8 Corrosive substances. 8
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Segregation groups Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co	Alkalis ode Not applicable
Transport Additional information:	
DOT	
Marine Pollutant (DOT): UN "Model Regulation":	No UN2735, Amines, liquid, corrosive, n.o.s. (3-Methylamino-1,2-propanediol), 8, III
product must not be used for commercial purposes or in formulations for com SARA Section 313 (specific toxic chemical listings) Substance is not liste California Proposition 65	gional/national/international regulations. Substances Control Act Chemical Substance Inventory. Use of this product is restricted under the supervision of a technically qualified individual as defined by TSCA. This imercial purposes.
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. Information about limitation of use: For use only by technically qualified in Other regulations, limitations and prohibitive regulations	
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. Information about limitation of use: For use only by technically qualified in Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regu The conditions of restrictions according to Article 67 and Annex XVII of market and use must be observed. Substance is not listed	lations (EC) No. 1907/2006. Substance is not listed. the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
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. Information about limitation of use: For use only by technically qualified in Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regu The conditions of restrictions according to Article 67 and Annex XVII of market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) S Chemical safety assessment: A Chemical Safety Assessment has not been <b>16 Other information</b> Employers should use this information only as a supplement to other information to ensure proper use and protect the health and safety of employ conformance with this Material Safety Data Sheet, or in combination with any Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de f IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: Thermational Civil Aviation Organization ICAO: Thermational Civil	the Regulation (EC) No. 1907/2006. Substance is not listed. the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the Substance is not listed. n carried out. tion gathered by them, and should make independent judgement of suitability of this rees. This information is furnished without warranty, and any use of the product not in other product or process, is the responsibility of the user.
Prop 65 - Cheimicals 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. Information about limitation of use: For use only by technically qualified in Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regu The conditions of restrictions according to Article 67 and Annex XVII of market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) S Chemical safety assessment: A Chemical Safety Assessment has not beer 16 Other information Employers should use this information only as a supplement to other informa information to ensure proper use and protect the health and safety of employ conformance with this Material Safety Data Sheet, or in combination with any Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -	the Regulation (EC) No. 1907/2006. Substance is not listed. the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the Substance is not listed. n carried out. tion gathered by them, and should make independent judgement of suitability of this rees. This information is furnished without warranty, and any use of the product not in other product or process, is the responsibility of the user.

## Product name: 3-Methylamino-1,2-propanediol

IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Page 5/5 Printing date 11/24/2015 Reviewed on 12/10/2008

(Contd. of page 4)

USA -