

Safety Data Sheet per OSHA HazCom 2012

> Identification number(s): EC number: 217-090-4

1 Identification Product identifier Product name: 3-(Dimethylamino)propionitrile Stock number: B23580, L06012 CAS Number: 1738-25-6 EC number: 217-090-4 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 Acute Tox. 4 H312 Harmful in contact with skin. 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. H227 Cornustible induit. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements 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. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 'P50 WHMIS classification B3 - Combustible liquid D2B - Toxic material causing other toxic effects T ð Classification system (Hazardous Materials Identification System) 2 Health (acute effects) = 22 IVITY 1 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: 1738-25-6 3-(Dimethylamino)propionitrile

Product name: 3-(Dimethylamino)propionitrile	
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<ul> <li>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.         </li> </ul>	
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 Hydrogen cyanide (HCN) 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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. 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. 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: 1738-25-6 3-(Dimethylamino)propionitrile (100.0%) REL (USA) Minimize exp.;NIAX Catalyst ESN;Pocket Guide App.C	
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 dust / smoke / mist.         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: Safety glasses         Body protection: Protective work clothing.	1154
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## Product name: 3-(Dimethylamino)propionitrile

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			(Contd. of page 2)	
9 Physical and chemical properties				
Information on basic physical and chemical properties General Information				
Appearance: Form: Color:	Liquid Colorless to yellow			
Odor:	Not determined			
Odor threshold: pH-value:	Not determined. Not determined.			
Change in condition				
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	-44 °C (-47 °F) 60-61 °C (140-142 °F) Not determined			
Flash point: Flammability (solid, gaseous)	63 °C (145 °F) Not determined.			
Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower: Upper:	Not determined Not determined			
Vapor pressure: Density at 20 °C (68 °F):	Not determined			
Relative density	0.87 g/cm³ (7.26 lbs/gal) Not determined.			
Vapor density Evaporation rate	Not determined. Not determined.			
Solubility in / Miscibility with Water:	Not determined			
Partition coefficient (n-octanol/water, Viscosity:	Not determined.			
dynamic: kinematic:	Not determined. Not determined.			
Other information	No further relevant information available.			
Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen cyanide Nitrogen oxides				
<b>11 Toxicological information</b> Information on toxicological effects Acute toxicity: Harmful in contact with skin. Danger through skin absorption.				
The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification:				
Oral LD50 2262 mg/kg (rat)				
Dermal LD50 1227 mg/kg (rabbit) Skin irritation or corrosion: Causes skin 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 foxicity: 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: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. 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 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.				
		(1	(Contd. on page 4)	

	Reviewed on 03/12/2014			
Product name: 3-(Dimethylamino)propionitrile				
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	(Contd. of page 3)			
14 Transport information				
UN-Number DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable			
Transport hazard class(es)				
DOT, ADR, ADN, IMDG, IATA Class	Not applicable			
Packing group DOT, IMDG, IATA	Not applicable			
Environmental hazards:	Not applicable.			
Special precautions for user Transport in bulk according to Approx II of MARPOL 72/78 and the IPC Coc	Not applicable.			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Coc Transport/Additional information:	<b>με</b> Νοι αρρικαδίε.			
DOT Marine Pollutant (DOT):	Νο			
UN "Model Regulation":	-			
15 Regulatory information				
Sefery, health and environmental regulations/legislation specific for the substance or mixture 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 Hz27 Combustible liquid H327 Combustible liquid H327 Combustible liquid H327 Combustible liquid H328 Harmul in contact with skin. H315 Causes skin irritation. H315 Causes skin irritation. H315 Causes skin irritation. H316 Causes skin irritation. H316 Causes skin irritation. H317 Causes series bey irritation. H316 Causes skin irritation. H317 Causes statements H221 Combustible liquid H318 Harmul in contact with skin. H315 Causes skin irritation. H316 Causes skin irritation. H316 Causes skin irritation. H316 Causes statements H220 Keep away from heat/sparks/open flames/hot surfaces. No smoking. H216 Xeep away from heat/sparks/open flames/hot surfaces contact lenses, if present and easy to do. Continue rinsing. H216 Xeep away from heat/sparks/open flames/hot surfaces contact lenses, if present and easy to do. Continue rinsing. H216 Xeep away from heat/sparks/open flames/hot surfaces contact lenses. If present and easy to do. Continue rinsing. H216 Xeep away from heat/sparks/open flames/hot surfaces is not listed. H216 Xeep away from heat/sparks/yeep away flames/hot away is the substance is not listed. H216 Xeep away from heat/sparks/yeep away from heat/sparks/yeep away from heat/sparks/yeep away is not listed. H216 Xeep away flames/hot away is not listed. H216 Xeep away flame				
<ul> <li>16 Other information         Employers should use this information only as a supplement to other information information to ensure proper use and protect the health and safety of employed conformance with this Material Safety Data Sheet, or in combination with any of Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms:         ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreemer DDT: US Department of Transportation         EINECS: European Inventory of Existing Commercial Chemical Substances         CAS: Chemical Abstracts Service (division of the American Chemical Society)         HMIS: Hazardous Materials Information System (USA)         WHMIS: Use that concentration, 50 percent         UDS: Use partment of Transportation         EVALUATE: Concentration, 50 percent         USA         WHMIS: Hazardous Materials Information System (Canada)         LCS0: Lethal does, 50 percent         VPVB: very Persistent and very Bioaccumulative         ACGIH: American Conference of Governmental Industrial Hygienists (USA)         OSHA: Occupational Safety and Health Administration (USA)         NTP: National Toxicology Program (USA)         IARC: International Agency for Research on Cancer         EPA: Environmental Protection Agency (USA)      </li> </ul>				