

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: 1,8-Bis(dimethylamino)naphthalene Stock number: L00313 CAS Number: 20734-58-1 EC number: 244-001-6 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) 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) 3 Health (acute effects) = 31 Flammability = 1EACTIVITY ] 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: 20734-58-1 1,8-Bis(dimethylamino)naphthalene Identification number(s): EC number: 244-001-6 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)

Product name: 1,8-Bis(dimethylamino)naphthalene	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	(Contd. of page 1)
After swallowing Seek medical treatment. Information for doctor	
<i>Most important symptoms and effects, both acute and delayed</i> Causes severe skin burns. Causes serious eye damage.	
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	
Possibly Hydrogen cyanide (HCN) Advice for firefighters Protective equipment:	
Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
<b>Personal precautions, protective equipment and emergency procedures</b> 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: Use neutralizing agent.	
Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. <b>Prevention of secondary hazards:</b> No special measures required.	
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 Handle under dry protective gas.	
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 storago in one common storage facility:	
Store away from oxidizing agents. Do not store together with acids. Store away from air. Store in the dark.	
Further information about storage conditions: Store under dry inert gas. This product is air sensitive.	
Keep container tightly sealed. Store in cool, drv conditions in well sealed containers.	
Protect from exposure to light. 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	
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 Eve protection:	
Tightly sealed goggles Full face protection <b>Body protection:</b> Protective work clothing.	
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9 Physical and chemical propertie	IS			
Information on basic physical and chemical properties General Information				
Appearance: Form: Color:	Crystalline powder Pale cream			
Odor: Odor threshold:	Not determined Not determined.			
pH-value:	Not applicable.			
Change in condition				
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	47-51 °C (117-124 °F) 144-145 °C (291-293 °F) (7mm Hg) Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	> 110 °C (> 230 °F) Not determined. Not determined Not determined Not determined.			
Danger of explosion: Explosion limits: Lower:	Not determined. Not determined			
Upper:	Not determined			
Vapor pressure: Density:	Not applicable. Not determined			
Relative density	Not determined.			
Vapor density	Not applicable.			
Evaporation rate Solubility in / Miscibility with	Not applicable.			
Water: Partition coefficient (n-octanol/water	Not determined			
Viscosity:	·			
dynamic: kinematic:	Not applicable. Not applicable.			
Other information	No further relevant information available.			
Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Acids Air Oxidizing agents Light Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Possibly Hydrogen cyanide (HCN)				
1 Toxicological information Information on toxicological effects Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage. 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: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: 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.			

er OSHA HazCom 2012	Printing date 11/24/2015 Reviewed on 09/08/201	
roduct name: 1,8-Bis(dimethylamino)naphthalene		
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	(Contd. of page 3	
4 Transport information		
UN-Number DOT, IMDG, IATA	UN3263	
UN proper shipping name		
DOT IMDG, IATA	Corrosive solid, basic, organic, n.o.s. (1,8-Bis(dimethylamino)naphthalene) CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (1,8-Bis(dimethylamino) naphthalene)	
Transport hazard class(es)		
DOT		
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Class Label	8 Corrosive substances. 8	
Class Label	8 (C8) Corrosive substances	
ĪMDĢ, IATA	•	
Class Label	8 Corrosive substances. 8	
Packing group DOT, IMDG, IATA		
Environmental hazards:	Not applicable.	
Special precautions for user	Warning: Corrosive substances	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co Transport/Additional information:	de Not applicable.	
DOT		
Marine Pollutant (DOT): UN "Model Regulation":	No UN3263, Corrosive solid, basic, organic, n.o.s. (1,8-Bis(dimethylamino)	
Safety, health and environmental regulations/legislation specific for the s GHS label elements The product is classified and labeled in accordance with Hazard pictograms	29 CFR 1910 (OSHA HCS)	
GHS05		
Signal word Danger		
Hazard statements H314 Causes severe skin burns and eye damage.		
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 c	lathing Dinea chin with water/shower	
P305+P30+P351+P353 IF IN EYES: Rinse cautiously with water for several minute P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	s. Remove contact lenses, if present and easy to do. Continue rinsing.	
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regi	ional/national/international regulations	
National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic S	ubstances Control Act Chemical Substance Inventory. Use of this product is restricte	
to research and development only. This product must be used by or directly un product must not be used for commercial purposes or in formulations for comm	nder the supervision of a technically qualified individual as defined by TSCA. This	
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.		
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) S Chemical safety assessment: A Chemical Safety Assessment has not been	ubstance is not listed. carried out.	
6 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 Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.		
Department issuing SDS: Global Marketing Department	other product or process, is the responsibility of the user.	
Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms:		
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fei ICAO: International Gvill vilation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreerne		
non nouse surgeon sur le transport des marchandises dangereuses par noute (European Agreene	(Contd. on page 5	

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USA

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of 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) WHIMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent CACGHI: 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)