



1 Identification Product identifier Product name: 2-(Dimethylamino)pyridine Stock number: L02513 CAS Number: 5683-33-0 EC number: 224-147-5 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) S. GHS06 Skull and crossbones Acute Tox. 3 H301 Toxic if swallowed. ! 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 R GHS06 Signal word Danger Hazard statements H227 Combustible liquid. H301 Toxic if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements 2010

 Precautionary statements

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

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

 P301+P310
 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/...

 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.

 P501
 Dispose of contents/container in accordance with local/regional/national/international regulations.

WHMIS classification B3 - Combustible liquid D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects × Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 2 Flammability = 2 Physical Hazard = 1 2 2 IVITY 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: 5683-33-0 2-(Dimethylamino)pyridine

Product name: 2-(Dimethylamino)pyridine

Identification number(s): EC number: 224-147-5

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:

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. Ensure adequate ventilation. 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 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 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: Safety glasses Body protection: Protective work clothing.

(Contd. of page 1)

Product name: 2-(Dimethylamino)pyridine

Product name: 2-(Dimethylamino)p	yridine	
		(Contd. of page 2)
9 Physical and chemical propertie	95	
Information on basic physical and c General Information Appearance: Form:	hemical properties	
Color:	Cólorless	
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range:	Not determined	
Boiling point/Boiling range: Sublimation temperature / start:	190-192 °C (374-378 °F) Not determined	
Flash point:	80 °C (176 °F)	
Flammability (solid, gaseous)	Not determinéd.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not determined	
Density at 20 °C (68 °F):	1.008 g/cm³ (8.412 lbs/gal)	
Relative density Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with	Not determined	
Water: Partition coefficient (n-octanol/wate	Not determined r): Not determined.	
Viscosity:	·	
dynamic: kinematic:	Not determined. Not determined.	
Other information	No locaternined. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions N Conditions to avoid No further releva Incompatible materials: Oxidizing ag Hazardous decomposition products Carbon monoxide and carbon dioxide Nitrogen oxides	nt information available. ents	
11 Toxicological information		
Information on toxicological effects Acute toxicity: Harmful if swallowed. LD/LC50 values that are relevant for Skin irritation or corrosion: Causes s Eye irritation or corrosion: Causes s Sensitization: No sensitizing effects k Germ cell mutagenicity: No effects kn Carcinogenicity: No classification dat Reproductive toxicity: No effects known Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects	skin irritation. erious eye irritation. nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. y - repeated exposure: No effects known. y - single exposure: May cause respiratory irritation.	
12 Ecological information		
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Toxicity Aquatic toxicity: No further relevant in	nformation available.	
Persistence and degradability No fun	rther relevant information available.	
Bioaccumulative potential No further Mobility in soil No further relevant info	relevant information available.	
Additional ecological information:		
General notes:	the environment without proper any environmental resumption	
Lo not allow material to be released to	the environment without proper governmental permits.	

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.

Product name: 2-(Dimethylamino)pyridine

		(Contd. of page 3
14 Transport information Not a hazardous material for transportation.		
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA Class	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	3/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
DOT Marine Pollutant (DOT):	No	

15 Regulatory information

Safety, 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



GHS06

Signal word Danger Hazard statements

H227 Combustible liquid. H301 Toxic if swallowed.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H335 May cause respiratory irritation. Precautionary statements

P210 P261

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/... P305+P351+P38 IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. 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. National regulations

market and use must be observed.

Substance

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 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 Date of preparation / last revision 11/23/2015 / -

Date of preparation / last revision 11/23/2015/ -Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IAA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association IATA: International Air Transport Association ENNECS: Curvepean Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent VPW very Persistent and very Bioaccumulative ACGIH: American Concentration, 50 percent LD50: Lethal dose, 50 percent VPW very Persistent and very Bioaccumulative ACGIH: American Concentration (USA) NTP: National Toxicology Program (USA) IARC: International Zafety and Health Administration (USA) IARC: International Zafety and Health Administration (USA)