

per OSHA HazCom 2012	Printing date 11/23/20 Reviewed on 12/17/20
1 Identification Product identifier	
Product name: <u>1-Aminocyclohexanecarboxylic acid</u> Stock number: L02020 CAS Number: 2756-85-6	
EC number: 220-411-0 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. 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) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable	
WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I HEALTH I HEALTH I IRE II REACTIVITY[1] Physical Hazard = 1 Other hazards I	
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description:	
2756-85-6 1-Aminocyclohexanecarboxylic acid Identification number(s): EC number: 220-411-0	
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 resist	ant foam
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resista 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	ant Ioani.
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: Pick up mechanically.	
	(Contd. on pag

roduct name: 1-Aminocyclohexane	earboxylic acid	
Prevention of secondary hazards: No		(Contd. of page 1)
Reference to other sections		
See Section 7 for information on safe ha See Section 8 for information on persona See Section 13 for disposal information.	al protection equipment.	
7 Handling and storage		
Handling Precautions for safe handling		
Keep container tightly sealed.		
Store in cool, dry place in tightly closed of Information about protection against of	containers. explosions and fires: No information known.	
Conditions for safe storage, including Storage	any incompatibilities	
Requirements to be met by storeroom	ns and receptacles: No special requirements.	
Further information about storage cor	nmon storage facility: Store away from oxidizing agents. nditions:	
Keep container tightly sealed. Store in cool, dry conditions in well seale Specific end use(s) No further relevant	ed containers.	
Specific end use(s) No further relevant	information available.	
8 Exposure controls/personal prote	ection	
Additional information about design of Properly operating chemical fume bood	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters	uesigned for fidzardous chemicals and naving an average race versony of a reast roo reet por minuto.	
Components with limit values that req Additional information: No data	quire monitoring at the workplace: Not required.	
Exposure controls Personal protective equipment		
General protective and hygienic meas The usual precautionary measures for ha	sures	
Keep away from foodstuffs, beverages a	and feed.	
Remove all soiled and contaminated clou Wash hands before breaks and at the er	nd of work.	
Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.		
Maintain an ergonomically appropriate w	vorking environment. pirator when high concentrations are present.	
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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 known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents

(Contd. on page 3)

Product name: 1-Aminocyclohexanecarboxylic acid		
		(Contd. of page 2)
Hazardous decomposition products: Carbon monoxide and carbon dioxide		(00,141,21,21,01,7
Nitrogen oxides		
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Carcinogenicity: 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	n.	
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 governm Do not allow undiluted product or large quantities to reach ground water, water 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.	nental permits. course or sewage system.	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agent: Water, if necessary with cleansing agents.	disposal.	
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)	Nono	
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 MARPOL73/78 and the IBC Code		
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 su GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable National regulations All components of this product are listed in the U.S. Environmental Protection A All components of this product are listed in the Canadian Non-Domestic Substa 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, 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 indiv Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulat The conditions of restrictions according to Article 67 and Annex XVII of th market and use must be observed. Substance is not listed.	Agency Toxic Substances Control Act Chemical substance Inventory. ances List (NDSL). viduals.	
Annex XIV of the REACH Regulations (requiring Authorisation for use) Sul	bstance is not listed.	(Contd. on page 4)

Product name: 1-Aminocyclohexanecarboxylic acid

(Contd. of page 3)

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.

- Information to endure proper access processing port and access process of a combination with any other product or process, is the responsibility of the acci-conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the acci-Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / -Abbreviations and acconyms: RD: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Civil Aviation Organization" (ICAO) IMDG: International AirTransport Association IEINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (Canada) LCSO: Lethal concentration, 50 percent UPS: very Persistent and very Bioaccumulative VPW very Persistent and very Bioaccumulative ACGIH: American Abstrational Safety and Health Administration (USA) NTP: National Safety and Health Administration (USA) NTP: National Protection Agency (USA)

USA