



1 Identification
Product identifier
Product name: 3-Azetidinemethanol hydrochloride
Stock number: H57801 CAS Number: 928038-44-2
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)
GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. 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 H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H326 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects
Classification system HMIS ratings (scale 0-4)
(Hazardous Materials Identification System)
FIRE Flammability = 1 REACTIVITY 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:
928038-44-2 3-Azetidinemethanol hydrochloride
4 First-aid measures
Description of first aid measures After inhalation Supply track air. If required, provide artificial respiration, Keep patient warm
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.
After swallowing Seek medical treatment. (Contd. on page 2) - USA

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Product name: 3-Azetidinemethanol hydrochloride 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: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen chloride (HCI) 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 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Ensure adequate ventilation. **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 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 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: 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

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 solled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid context with the avec and ekin. 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

9 Physical and chemical properties

Information on basic physical and ch General Information Appearance:	nemical properties
Form:	Liquid
Color:	Pale yellow to yellow
Odor:	Not determined
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined Not determined Not determined.

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Product name: 3-Azetidinemethanol hydrochloride

Ignition temperature: Decomposition temperature: Auto igniting:		
Decomposition temperature:	(0	Contd. of page 2
	Not determined Not determined	
	Not determined	
Danger of explosion:	Not determined.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not determined Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not determined. Not determined.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water)	Not determined r): Not determined.	
Viscosity: dynamic:	Not determined.	
kinematic:	Not determined.	
Other information	No further relevant information available.	
Possibility of hazardous reactions Re Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products:	nt information available.	
Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCl)		
Reproductive toxicity: No effects know Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect Additional toxicological information: 12 Ecological information Toxicity Aquatic toxicity: No further relevant int Persistence and degradability No furth	 classification: No data skin 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 - repeated exposure: May cause respiratory irritation. acts known. : To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 	
Bioaccumulative potential No further i Mobility in soil No further relevant info Additional ecological information: General notes:	r relevant information available. ormation available.	
Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further releva	vant information available.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m	l or national regulations to ensure proper disposal. made according to official regulations.	
Waste treatment methods Recommendation Consult state, local of Uncleaned packagings:		
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Safety Data Sheet per OSHA HazCom 2012

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roduct name: 3-Azetidinemethanol hyd	rochloride
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Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	-
5 Regulatory information	· · · · · · · · · · · · · · · · · · ·
Safety, health and environmental regulation GHS label elements The product is classified Hazard pictograms	ns/legislation specific for the substance or mixture I and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P305+P351+P338 IF IN EYES: Rinše cautious P304+P340 IF INHALED: Remove pers P405 Store locked up. P501 Dispose of contents/contain National regulations This product is not listed in the U.S. Environme to research and development only. This produc product must not be used for commercial purp This product is not listed on the Canadian Don SARA Section 313 (specific toxic chemical California Proposition 65 Prop 65 - Chemicals known to cause cance Prop 65 - Developmental toxicity, female Su Prop 65 - Developmental toxicity, male Subs Information about limitation of use: For use Other regulations, limitations and prohibiti Substance of Very High Concern (SVHC) ac The conditions of restrictions according to market and use must be observed. Substance is not listed.	Nective clothing/eyé protection/face protection. sly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. son to fresh air and keep comfortable for breathing. ner in accordance with local/regional/national/international regulations. ental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricture to must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This oses or in formulations for commercial purposes. mestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). listings) Substance is not listed. er Substance is not listed. e only by technically qualified individuals. ve regulations ccording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the listing Authorisation for use) Substance is not listed.
Employers should use this information only as information to ensure proper use and protect th conformance with this Material Safety Data Sh Department issuing SDS: Global Marketing L Date of preparation / last revision 11/24/201	15/-
CAS: Chemical Abstracts Service (division of the American Ci HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System LC50: Lethal concentration, 50 percent LD50: Lethal cosc, 50 percent UPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hyt OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)	ngereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) hemical Society) n (Canada) gienists (USA)

IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)