

Safety Data Sheet per OSHA HazCom 2012

1	Identification		
	Product identifier Product name: Methyl N-benzylpyrrolidine-3-carboxylate		
	Stock number: H33341		
	CAS Number: 17012-21-4		
	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. 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		
	Hăzard statements Not applicable WHMIS classification Not controlled		
	Classification system HMIS ratings (scale 0-4) (Uncertained Interview Interview Interview)		
	(Hazardouš Materials Identification System) HEALTH Ⅰ Health (acute effects) = 1		
	FIRE I Flammability = 1 REACTIVITY Physical Hazard = 1		
	Other hazards Results of PBT and vPvB assessment		
	PBT: Not applicable. VPVB: Not applicable.		
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3	Composition/information on ingredients Chemical characterization: Substances		
	CAS# Description: 17012-21-4 Methyl N-benzylpyrrolidine-3-carboxylate		
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.		
-	Indication of any immediate medical attention and special freatment 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		
	Wear self-contained respirator. Wear fully protective impervious suit.		
6	Accidental release measures		
0	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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).		
	Prevention of secondary hazards: No special measures required. Reference to other sections		
	See Section 7 for information on safe handling		

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Product name: Methyl N-benzylpyrrolidine-3-carboxylate				
See Section 8 for information on persona See Section 13 for disposal information.	l protection equipment.	(Contd. of page 1)		
Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. 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. Store in cool, dry conditions in well sealed containers.				
Control parameters				
General 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. 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 che General Information Appearance: Form: Color:	mical properties Liquid Pale yellow Not determined			
	Not determined.			
pH-value:	Not determined.			
Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined 98 °C (208 °F) (0.2mm Hg) Not determined Not applicable. Not determined Not determined Not determined.			
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate	Product does not present an explosion hazard. Not determined Not determined Not determined Not determined Not determined. Not determined. Not determined.			
Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic:	Not determined Not determined. Not determined. Not determined. No further relevant information available.			
10 Stability and reactivity 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 Hazardous decomposition products: Carbon monoxide and carbon dioxide				

Carbon monoxide and carbon dioxide Nitrogen oxides

(Contd. on page 3)

Product name: Methyl N-benzylpyrrolidine-3-carboxylate (Contd. of page 2) Possibly Hydrogen cyanide (HCN) 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 classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Sectific target organ system toxicity - repeated exposure: 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. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 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 MARPOL73/78 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 Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Hazard statements Not applicable 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. 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 another bacteria. market and use must be observed.

Substance is not liste

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.

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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. 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 11/24/2015 / Abbreviations and acronyms:

ID: Réglement 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 Civil Aviation Organization
ICAO: Ti: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
IMDG: International Civil Aviation of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal dose, 50 percent
VPWs very Persistent and very Bioaccumulative
ACGIH: American Chernental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
IMTP: National Toxicology Program (USA)
IATE: International Air Transport Goods (USA)
IATE: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

USA