



Revision date 06/24/2016
1 Identification Product identifier
Product name: Methyl 1-benzyl-4-oxopiperidine-3-carboxylate hydrochloride
Stock number: H26930 CAS Number:
3939-01-3 EC number:
223-522-2 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:
Call Carechem 24 at +44 (0) 1865 407333 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 as hazardous according to 29 CFR 1910 (OSHA 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 (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.
3 Composition/information on ingredients
Chemical characterization: Substances CAS# Description: 2020 01 2 Mothed 4 beam d 4 evention interview date budgesblagide
3939-01-3 Methyl 1-benzyl-4-oxopiperidine-3-carboxylate hydrochloride Identification number(s): EC number: 223-522-2
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 swallowing Seek medical advice. 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: Contene mensuide and earbon dioxide.
Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen chloride (HCl)
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

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Environmental precautions: Do not all Methods and material for containment Prevention of secondary hazards: No 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.		(Contd. of page 1)	
Conditions for safe storage, including Storage Requirements to be met by storeroom Information about storage in one com Store away from water/moisture. Store away from oxidizing agents. Further information about storage con Store under dry inert gas. This product is hygroscopic. Keep container tightly sealed. Store in cool, dry conditions in well seale Protect from humidity and water.	explosions and tires: No information known. a any incompatibilities as and receptacles: No special requirements. mon storage facility: aditions: ed 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 Personal protective equipment General protective and hygienic measures The use all solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short ferm use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protective gloves prior to each use for their proper condition. The selection of suitable gloves not on ly 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: Safety glasses			
9 Physical and chemical properties			
Information on basic physical and che General Information Appearance:			
Form: Odor:	Powder Odorless		
Odor threshold:	Not determined.		
pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not applicable. ca 185 °C (ca 365 °F) (dec) Not determined Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.		
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic:	Product does not present an explosion hazard. Not determined Not applicable. Not determined Not determined. Not determined. Not applicable. Not determined Not determined Not determined. Not determined.		
		(Contd. on page 3)	

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kinematic:	Not applicable. No further relevant information available.	ntd. of page
Other information		
0 Stability and reactivity		
Reactivity No information kno Chemical stability Stable unc Thermal decomposition / co Possibility of hazardous rea Conditions to avoid No furthe Incompatible materials: Oxidizing agents Water/moisture Hazardous decomposition p Carbon monoxide and carbon Nitrogen oxides Hydrogen chloride (HCI)	fer recommended storage conditions. nditions to be avoided : Decomposition will not occur if used and stored according to specifications. ctions Reacts with strong oxidizing agents er relevant information available. roducts:	
1 Toxicological information	1	
Information on toxicological Acute toxicity: No effects kno LD/LC50 values that are rele Skin irritation or corrosion: N Sensitization: No sensitizing Germ cell mutagenicity: No eff Carcinogenicity: No classifica Reproductive toxicity: No eff Specific target organ system Specific target organ system Aspiration hazard: No effects Subacute to chronic toxicity Additional toxicological info	effects wn. vant for classification: No data May cause irritation fects known. effects known. ation data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. fects known. a toxicity - repeated exposure: No effects known. a toxicity - single exposure: No effects known.	
2 Ecological information		
Do not allow material to be relu- Do not allow undiluted product Avoid transfer into the environ. Results of PBT and vPvB as PBT: Not applicable. vPvB: Not applicable.	<i>ty</i> No further relevant information available. o further relevant information available. avant information available. ation: eased to the environment without proper governmental permits. to r large quantities to reach ground water, water course or sewage system. ment.	
3 Disposal considerations		
Waste treatment methods Recommendation Consult sta Uncleaned packagings:	ate, local or national regulations to ensure proper disposal. nust be made according to official regulations.	
Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, IMDG, IATA		
DOT, IMĎG, IATA Environmental hazards:	Not applicable	
Environmental nazaros: Special precautions for user	Not applicable. Not applicable.	
	to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional informa DOT	ation:	
Marine Pollutant (DOT):	No	
UN "Model Regulation":	<u> </u>	
5 Regulatory information Safety, health and environm GHS label elements Not appli Hazard pictograms Not applic Signal word Not applicable Hazard statements Not appli	ental regulations/legislation specific for the substance or mixture icable cable	

Signal word Not applicable Hazard statements Not applicable

(Contd. of page 3)

Product name: Methyl 1-benzyl-4-oxopiperidine-3-carboxylate hydrochloride

National 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. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). 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, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male 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

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 rescuese superties to convert market and use must be observed.

Substance is not listed. 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.

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Department issuing SDS: Global Marketing Department
Date of preparation / last revision 06/28/2016 / Abbreviations and acronyms:

RID: 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: The Technical Instructions by the "International Civil Aviation Organization
ICAO: The Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
DOT: US Department of Transportation
ENNECS: Curopean Inventory of Existing Commercial Chemical Subtances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Information System (ICAn)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal dose, 50 percent
US0: Lethal dose, 50 percent
US0: Lethal dose, 50 percent
US0: Curoter end Ference IG Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
INF: National Toxicology Program (USA)
IAF: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

USA