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1 Identification
Product identifier
Product name: 1-Benzyloxycarbonyl-3-piperidone
Stock number: H64471 CAS Number: 61995-20-8
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: 800-32 <u>2</u> -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
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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. Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+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
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Classification system HMIS ratings (scale 0-4) (Hazardous Materiala Identification Sustem)
(Hazardous Materials Identification System) HEALTH II Health (acute effects) = 1 FIRE II Flammability = 1
REACTIVITY Physical Házard = 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: 61995-20-8 1-Benzyloxycarbonyl-3-piperidone
4 First-aid measures
Description of first aid measures
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek îmmediate medical advice.
After skin contact Immediately wash with water and soap and rinse thoroughly.
Seek immédiate medical advice.
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.
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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) 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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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. 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: Refrigerate Information about storage in one common storage facility: Protect from heat.

Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed.

Refrigerate 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 soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Do not inhale dust / smoke / mist. Avoid contact with the owne and ckin

Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use:

Use a respirator with organic vaporiarid gas 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 such as NIOSH (USA) or CEN (EU). 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. Eye protection: Safety glasses Deductor and the protection work electrics

Body protection: Protective work clothing

9 Physical and chemical properties

s r hysical and chemical properties		
Information on basic physical and chemical properties General Information Appearance:		
'Form: Odor:	Liquid Not determined	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined	

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Product name: 1-Banzyloxycarbonyl-3-ninaridana

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oduct name: 1-Benzyloxycarbor	ıyl-3-piperidone	
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Flammability (solid, gaseous)	Not determined.	100.101 - 1-3
Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
	Not determined.	
Danger of explosion: Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not determined	
Density:	Not determined	
Relative density Vapor density	Not determined. Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/wate		
Viscosity:		
dynamic: kinematic:	Not determined. Not determined.	
Other information	No further relevant information available.	
Stability and reactivity		
Reactivity No information known. Chemical stability Stable under reco	mmended storage conditions	
Thermal decomposition / condition	s to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions	Reacts with strong oxidizing agents	
Conditions to avoid No further relevant Incompatible materials:	ant information available.	
Oxidizing agents		
Heat		
Hazardous decomposition products Carbon monoxide and carbon dioxide	5.	
Nitrogen oxides		
Toxicological information		
•		
Information on toxicological effects Acute toxicity: No effects known.	, ,	
LD/LC50 values that are relevant fo	r classification: No data	
Skin irritation or corrosion: Causes	skin irritation.	
Eye irritation or corrosion: Causes Sensitization: No sensitizing effects	serious eye irritation.	
Germ cell mutagenicity: No effects I	known.	
Carcinogenicity: No classification da	ata on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects kn Specific target organ system toxici	own. ty - repeated exposure: No effects known.	
Specific target organ system toxici	ty - single exposure: May cause respiratory irritation.	
Aspiration hazard: No effects known Subacute to chronic toxicity: No eff		
Additional toxicological information	<i>n</i> : To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
Ecological information		
Ecological information		
Toxicity Aquatic toxicity: No further relevant	information available.	
Persistence and degradability No fu	urther relevant information available	
Bioaccumulative potential No furthe Mobility in soil No further relevant in	rr relevant information available. formation available	
Additional ecological information:		
General notes:		
Avoid transfer into the environment.	e quantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessme	ent	
PBT: Not applicable.		
vPvB: Not applicable. Other adverse effects No further rele	evant information available.	
Dianagal considerations		
Disposal considerations		
Waste treatment methods Recommendation Consult state loca	al or national regulations to ensure proper disposal.	
Uncleaned packagings:		
Recommendation: Disposal must 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)	Νοι αμμικαρίε	
DOT, ADR, ADN, IMDG, IATA		
Class	Not applicable	
Packing group		
Packing group DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
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USA

