

1 Identification



Product identifier Product name: 1-Benzoylpiperidine Stock number: L12378 **CAS Number:** 776-75-0 EC number: 212-280-3 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. Inerrito Fisher Scheman C. 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. I abel 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 (acute effects) = 1 Flammability = 1 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: 776-75-0 1-Benzoylpiperidine Identification number(s): EC number: 212-280-3

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 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 dióxide 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 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.

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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.	andling al protection equipment.	(Contd. of page 1,
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 e	containers. explosions and fires: No information known.	
	ns and receptacles: No special requirements. Imon storage facility: Store away from oxidizing agents. Inditions: ed containers.	
8 Exposure controls/personal prote	ection	
Additional information about design of Properly operating chemical fume hood of	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with limit values that req Additional information: No data	quire monitoring at the workplace: Not required.	
Protection of hands: Impervious aloves	andling chemicals should be followed. and feed. thing immediately. nd of work. vorking environment. pirator when high concentrations are present.	
The selection of suitable gloves not only Penetration time of glove material (in Eye protection: Safety glasses Body protection: Protective work clothin		
Penetration time of glove material (in Eye protection: Safety glasses Body protection: Protective work clothin 9 Physical and chemical properties	minutes) Not determined ing.	
Penetration time of glove material (in Eye protection: Safety glasses Body protection: Protective work clothin 9 Physical and chemical properties Information on basic physical and che General Information Appearance: Form: Color: Odor:	minutes) Not determined ing. emical properties Solid Pale yellow Not determined	
Penetration time of glove material (in Eye protection: Safety glasses Body protection: Protective work clothin 9 Physical and chemical properties Information on basic physical and che General Information Appearance: Form: Color:	minutes) Not determined ing. emical properties Solid Pale yellow	
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Penetration time or glove material (in I Eye protection: Safety glasses Body protection: Protective work clothin 9 Physical and chemical properties Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor: Odor threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Melting range: Sublimation temperature / start: Flash point: Flammability (solid, gaseous) Ignition temperature:	minutes) Not determined ing. semical properties Solid Pale yellow Not determined Not determined Not determined Not applicable. 48-50 °C (118-122 °F) 180-184 °C (356-363 °F) (20 mmHg) Not determined Not applicable Not applicable Product does not present an explosion hazard. Not determined Not applicable. Insoluble	

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

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Product name: 1-Benzoylpiperidine			
		(Control of page 2)	
Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides		(Contd. of page 2)	
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 mat Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects know. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute	vn.		
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. 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)	NONE		
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 Co			
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 s GHS label elements Not applicable Hazard pictograms 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 S to research and development only. This product must be used by or directly ur product must not be used for commercial purposes or in formulations for comm 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. Prop 65 - Developmental toxicity, male Substance is not listed.	ubstances Control Act Chemical Substance Inventory. Use of this pr nder the supervision of a technically qualified individual as defined by nercial purposes.		

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 must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. (Contd. on page 4

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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 last and provide and provide a set of in combination with any other product or process, is use responsibility of the user.

 Department issuing SDS: Global Marketing Department
 Date of preparation / last revision 11/23/2015 /
 Abbreviations and acronyms:

 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 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 Air Transport Association" (ICAO)
 IMDG: International Air Transport Association
 ICAO: International Air Transport Association
 IENECS: European Inventory of Existing Commercial Chemical Substances
 ENECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 HMIS: Hazardous Materials Information System (Canada)
 LCSO: Lethal concentration, 50 percent
 UPSV every Persistent and very Bioaccumulative
 ACGHI: American Conference of Goovernmental Industrial Hygienists (USA)
 OXFH: Occupational Safety and Health Administration (USA)
 NTP: National Protection Agency (USA)