



1 Identification Product identifier Product name: 4-Phenylpiperidine Stock number: H66389 CAS Number: 771-99-3 EC number: 212-243-1 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) ! 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. 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. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 WHMIS classification D2B - Toxic material causing other toxic effects Ţ Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1Flammàbility = 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: 771-99-3 4-Phenylpiperidine Identification number(s): EC number: 212-243-1 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. (Contd. on page 2)

## Product name: 4-Phenylpiperidine

(Contd. of page 1) 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 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 Nitrogen oxides (NOX) Advice for fireficience 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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: 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 Recautions for safe nanoing 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 Personal protective equipment rersonal 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. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment 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 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. 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 Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Color: Powder Yellow to brown Not determined Odor: Odor threshold: Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: 61-64 °C (142-147 °F)

Not determined

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Product name: 4-Phenylpiperidine		
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Sublimation temperature / start:	Not determined	
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
Decomposition temperature:	Not determined	
Auto igniting: Danger of explosion:	Not determined. Not determined.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water)		
Viscosity:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		1
Chemical stability Stable under recom	nmended storage conditions. <b>to be avoided:</b> Decomposition will not occur if used and stored according to specifications.	I
Possibility of hazardous reactions Re	eacts with strong oxidizing agents	1
Conditions to avoid No further relevan Incompatible materials: Oxidizing ager	nt information available. ents	1
Hazardous decomposition products: Carbon monoxide and carbon dioxide		1
Nitrogen oxides		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known.	· · · · · · · · · · · · · · · · · · ·	1
LD/LC50 values that are relevant for on Skin irritation or corrosion: Causes skin irritation or corrosion: Causes skin irritation or corrosion in the second statement of the	skin irritation.	
Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects know	erious eye irritation.	1
Germ cell mutagenicity: No effects kno	nown.	1
Carcinogenicity: No classification data Reproductive toxicity: No effects know	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn.	
Specific target organ system toxicity	<ul> <li><i>γ</i> - repeated exposure: No effects known.</li> <li><i>γ</i> - single exposure: May cause respiratory irritation.</li> </ul>	
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effect	cts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
		i
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant inf	formation available.	
Persistence and degradability No furth Bioaccumulative potential No further r	ther relevant information available. relevant information available.	
Mobility in soil No further relevant infor	rmation available.	
Additional ecological information: General notes:		
	quantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessmen	ıt	
<b>PBT:</b> Not applicable. <b>vPvB:</b> Not applicable.		
Other adverse effects No further releva	ant information available.	
13 Disposal considerations		
Waste treatment methods	· · · · · · · · · · · · · · · · · · ·	
Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be m	nade according to official regulations.	
14 Transport information		
UN-Number	Natappliable	
DOT, ADN, IMDG, IATA UN proper shipping name	Not applicable	
DOT, ADN, IMDG, ĬATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group		
DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user Transport in bulk according to Annex	Not applicable. x II of MARPOL73/78 and the IBC Code Not applicable.	
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Safety Data Sheet per OSHA HazCom 2012

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Product name: 4-Phenylpiperidine		
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Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	-	
15 Pagulatory information		
15 Regulatory information Safety, health and environmental regulations/le GHS label elements The product is classified and Hazard pictograms	gislation specific for the substance or mixture labeled in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07		
<ul> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in</li> <li>National regulations</li> <li>This product is not listed in the U.S. Environmental</li> <li>to research and development only. This product must</li> <li>product must not be used for commercial purposes</li> <li>This product is not listed on the Canadian Domestic</li> <li>SARA Section 313 (specific toxic chemical listin</li> <li>California Proposition 65</li> <li>Prop 65 - Developmental toxicity, Substance is not</li> <li>Prop 65 - Developmental toxicity, female Substance</li> <li>Prop 65 - Developmental toxicity, male Substance</li> <li>Information about limitation of use: For use only</li> <li>Other regulations, limitations and prohibitive regulations</li> </ul>	c Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). ngs) Substance is not listed. bstance is not listed. of listed. re is not listed. y by technically qualified individuals. gulations Ging to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. cle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the gulations disted.	
information to ensure proper use and protect the he conformance with this Material Safety Data Sheet, o	pplement to other information gathered by them, and should make independent judgement of suitability of this ealth and safety of employees. This information is furnished without warranty, and any use of the product not in or in combination with any other product or process, is the responsibility of the user.	
Department issuing SDS: Global Marketing Depart Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereu DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Sub CAS: Chemical Abstracts Service (division of the American Chemica HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Cana LCS0: Lethal concentration, 50 percent DS0: Lethal dose, 50 percent vPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration (USA) WITP, National Toxicology Program (USA)	uses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) ostances al Society)	
ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)	s (USA)	

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)