





Product name: 4-Piperidinemethanol

Indication of any immediate medical amendian and special treatment needed i/o further relevant information available. First-fifth growthing media Subable exclusion for a first for the information available. First-fifth growthing media Subable exclusion for a first for toolkee extrement and energency procedures Provide or valer approx. The information available. For the product is needed in a first for toolkee extrement and energency procedures Provide or valer approx. The information available. For the product is needed in a first for toolkee extrement and energency procedures Provide or valer approx. The information available. For the product is needed in a first for the product and energency procedures Provide or valer approx. The product is needed in the processor of the product is needed in the produ			
Exclusion and the second seco	Indication of any immediate medical	attention and special treatment needed No further relevant information available.	(Contd. of page 1)
Personal precautions, protective equipment, and emergency procedures Wear products equipment, Networks equipment, and we material to be released to the environment without proper governmental permits. Wear products equipment, Networks equipment, and the environment without proper governmental permits. Wear products eventions.	Extinguishing media Suitable extinguishing agents Carbor Special hazards arising from the sub If this product is involved in a fire, the fc Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: Wear self-contained respirator.	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Istance or mixture Ilowing can be released:	
Hearding Procession for sofe handling Resp container (ight) sealed, Resp container (ight) sealed, Ensure (ight) sealed, Resp container (ight) sealed, Ensure (ight) sealed, Resp container (ight) sealed, Condition about protection against explosions and fires: No information known. Information about protection against explosions and frees. Conditions for safe storege, including any incompatibilities Storege Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Store away from volkizing agents. Repostore for fourthy bes	Personal precautions, protective equ Wear protective equipment. Keep unpro Ensure adequate ventilation Environmental precautions: Do not al Methods and material for containmer Use neutralizing agent. Dispose of contaminated material as wa Ensure adequate ventilation. Prevention of secondary hazards: No Reference to other sections	otected persons away. llow material to be released to the environment without proper governmental permits. nt and cleaning up: aste according to section 13. o special measures required.	
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: Not required. Additional information: No data 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 solied and contaminate clothing immediately. Wash hands before breaks and at the end of work. Maintain are regnomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Perestion if mod gloves The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Perestion if mod gloves They select or glove material properties Information on basic physical and chemical properties Geereral Information	Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed Ensure good ventilation at the workplace Information about protection against Conditions for safe storage, including Storage Requirements to be met by storeroor Information about storage in one cond Store away from oxidizing agents. Store away from water/moisture. Further information about storage cond This product is hygroscopic. Store under dry inert gas. Keep container tightly sealed. Store in cool, dry conditions in well seal Protect from humidity and water.	re. explosions and fires: No information known. g any incompatibilities ms and receptacles: No special requirements. mmon storage facility: onditions: led containers.	
Information on basic physical and chemical properties General Information Appearance: Form: Crystalline powder Color: White Odor: Amine-like Odor threshold: Not determined. pH-value: Not applicable.	Additional information about design Properly operating chemical fume hood Control parameters Components with limit values that re Additional information: No data Exposure controls Personal protective equipment General protective and hygienic mea The usual precautionary measures for H Keep away from foodstuffs, beverages i Remove all soiled and contaminated clo Wash hands before breaks and at the e Avoid contact with the eyes and skin. Maintain an ergonomically appropriate w Breathing equipment: Use suitable res Protection of hands: Impervious gloves Check protective gloves prior to each us The selection of suitable gloves not only Penetration time of glove material (in Eye protection: Tightly sealed goggles Full face protection	of technical systems: I designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. equire monitoring at the workplace: Not required. Isures handling chemicals should be followed. and feed. othing immediately. and of work. working environment. spirator when high concentrations are present. se for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. i minutes) Not determined	
General Information Constant Appearance: Crystalline powder Form: Crystalline powder Color: White Odor: Amine-like Odor threshold: Not determined. pH-value: Not applicable.	9 Physical and chemical properties	s	
	General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	Crystalline powder White Amine-like Not determined.	
	pH-value:	Not applicable.	(Contd. on page 3)

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		(Contd. of page
Change in condition Melting point/Melting range:	57-61 °C (135-142 °F)	
Boiling point/Boiling range: Sublimation temperature / start:	118-120 °C (244-248′°F) (13 mmHg) Not determined	
Flash point: Flammability (solid, gaseous)	> 110 °C (> 230 °F) Not determined.	
Flammability (solid, gaseous) Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density at 20 °C (68 °F):	Not applicable. 0.997 g/cm ³ (8.32 lbs/gal)	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Soluble	
Partition coefficient (n-octanol/water):		
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
0 Stability and reactivity		
Reactivity No information known.		
Thermal decomposition / conditions te	nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions No Conditions to avoid No further relevant	dangerous reactions known	
Incompatible materials:		
Oxidizing agents Water/moisture		
Hazardous decomposition products:		
Carbon monoxide and carbon dioxide Nitrogen oxides		
Possibly Hydrogen cyanide (HCN)		
LD/LC50 values that are relevant for co Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data of Reproductive toxicity: No effects known. Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	evere skin burns. rious eye damage. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. - repeated exposure: No effects known. - single exposure: No effects known.	
2 Ecological information		
Toxicity Aquatic toxicity: No further relevant info	ormation available.	
Persistence and degradability No furth	ner relevant information available.	
Bioaccumulative potential No further re Mobility in soil No further relevant inforr	mation available.	
Additional ecological information: General notes:		
Do not allow material to be released to the	he environment without proper governmental permits.	
Do not allow material to be released to the Do not allow undiluted product or large q Avoid transfer into the environment.	uantities to reach ground water, water course or sewage system.	
Do not allow material to be released to the Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment	uantities to reach ground water, water course or sewage system.	
Do not allow material to be released to th Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment PBT : Not applicable. vPvB : Not applicable.	juantities to reach ground water, water course or sewage system. t	
Do not allow material to be released to the Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevan	juantities to reach ground water, water course or sewage system. t	
Do not allow material to be released to the Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment PBT : Not applicable. vPvB : Not applicable. Other adverse effects No further releva. 3 Disposal considerations	juantities to reach ground water, water course or sewage system. t	
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roduct name: 4-Piperidinemethanol	
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Transport hazard class(es)	
DOT	
22	
Class	8 Corrosive substances.
Label	8
Class Label	8 (C8) Corrosive substances 8
IMDG, IATA	
	9 Corrective substances
Class Label	8 Corrosive substances. 8
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user Segregation groups	Warning: Corrosive substances Alkalis
Transport in bulk according to Annex II of MARPOL73/78 a	
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN3259, Amines, solid, corrosive, n.o.s. (4-Piperidinemethanol), 8, III
Safety, health and environmental regulations/legislation sp GHS label elements The product is classified and labeled in ac Hazard pictograms GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements	ccordance with 29 CFR 1910 (OSHA HCS)
Safety, health and environmental regulations/legislation sp GHS label elements The product is classified and labeled in ad Hazard pictograms GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P280 Wear protective gloves/protective clothing/e P305+P351+P338 IF IN EYES: Rinse cautiously with water for P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor National regulations This product is not listed in the U.S. Environmental Protection A to research and development only. This product must be used for commercial purposes or in formula SARA Section 313 (specific toxic chemical listings) Substar California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not 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, female 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, female 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, 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 toxicit	xcordance with 29 CFR 1910 (OSHA HCS) ye protection/face protection. several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ?/ ygency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict by or directly under the supervision of a technically qualified individual as defined by TSCA. This ations for commercial purposes. Ince is not listed. bt listed. ted. d. lly qualified individuals.
Safety, health and environmental regulations/legislation sp GHS label elements The product is classified and labeled in ac Hazard pictograms GHS05 GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P280 Wear protective gloves/protective clothing/e P305+P351+P338 IF IN EYES: Rinse cautiously with water for P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor National regulations This product is not listed in the U.S. Environmental Protection A to research and development only. This product must be used for commercial purposes or in formula SARA Section 313 (specific toxic chemical listings) Substar California Proposition 65 Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male	xcordance with 29 CFR 1910 (OSHA HCS) ye protection/face protection. several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ?/ ygency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict by or directly under the supervision of a technically qualified individual as defined by TSCA. This ations for commercial purposes. Ince is not listed. of listed. ted. d. lly qualified individuals.
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