



1 Identification
Product identifier
Product name: alpha,alpha-Diphenyl-N-methyl-D-prolinol
Stock number:
144119-12-0 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099
Wald Hill, WA 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
\land
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/sprav.
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.
P304+F340 In InfiniteLD. Remove person to nesh an and keep connortable to breaking. 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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\mathbf{U}
Classification system HMIS ratings (scale 0-4) (Uservice Scherrichten Straten)
(Hazardous Materials Identification System)
FIRE Flammability = 1 REACTIVITY Physical Hazard = 1
Other hazards
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable
vPvB: Not applicable.
3 Composition/information on ingredients Chemical characterization: Substances
CAS# Description: 144119-12-0 alpha,alpha-Diphenyl-N-methyl-D-prolinol
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
Seek immediate medical advice. After skin contact Immediately wash with water and soan and rinse thoroughly.
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 eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. (Contd. on page 2)

Product name: alpha, alpha-Diphenyl-N-methyl-D-prolinol (Contd. of page 1) 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 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. 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 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 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: 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 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. Breathing equipment: Use suitable respirator when high concentrations are present. 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. **Penetration time of glove material (in minutes)** Not determined **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: Solid White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable Change in condition Melting point/Melting range: 68-71 °C (154-160 °F) Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined

(Contd. on page 3)

Product name: alpha,alpha-Diphenyl-N-methyl-D-prolinol

Auto igniting:		(Contd. of page 2
	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:	Not applicable.	
	Not determined Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Insoluble	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recomm Thermal decomposition / conditions to	nended storage conditions. be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions No of	dangerous reactions known	
Conditions to avoid No further relevant i	information available.	
Incompatible materials: Oxidizing agent	S	
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
Nitrogen oxides		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known.		
LD/LC50 values that are relevant for cla		
Skin irritation or corrosion: Causes ski		
Eye irritation or corrosion: Causes serie	ous eye irritation.	
Sensitization: No sensitizing effects know Germ cell mutagenicity: No effects know	MII. An	
Carcinogenicity: No classification data c	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects known		
Specific target organ system toxicity -	repeated exposure: No effects known.	
Aspiration hazard: No effects known.	single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effects	s known.	
Additional toxicological information: T	o the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information		
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant info	rmation available	
Porsistance and degradability No furthe	ar relevant information available	
Bioaccumulative potential No further re	levant information available.	
Bioaccumulative potential No further re Mobility in soil No further relevant inform	nation available.	
Additional ecological information:		
General notes:	e environment without proper governmental permits.	
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Avoid transfer into the environment. Results of PBT and vPvB assessment		
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(Contd. on page 4)

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DOT Marine Pollutant (DOT):	No
5 Regulatory information Safety, health and environmental regulati GHS label elements The product is classifie Hazard pictograms	ions/legislation specific for the substance or mixture ad and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P280 Wear protective gloves/p P305+P351+P338 IF IN EYES: Rinse cautic P304+P340 IF INHALED: Remove pe	e/gas/mist/vapours/spray. rotective clothing/eye protection/face protection. usly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. erson to fresh air and keep comfortable for breathing.
P405 Store locked up. P501 Dispose of contents/cont	ainer in accordance with local/regional/national/international regulations.
to research and development only. This proc product must not be used for commercial pu SARA Section 313 (specific toxic chemics California Proposition 65	
Prop 65 - Chemicals known to cause can Prop 65 - Developmental toxicity Substan Prop 65 - Developmental toxicity, female Prop 65 - Developmental toxicity, male Su Information about limitation of use: For u Other regulations, limitations and prohib Substance of Very High Concern (SVHC) The conditions of restrictions according	ce is not listed. Substance is not listed. Jbstance is not listed. se only by technically qualified individuals.
market and use must be observed. Substance is not listed.	quiring Authorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical	Safety Assessment has not béen carried out.
information to ensure proper use and protect	as a supplement to other information gathered by them, and should make independent judgement of suitability of this t the health and safety of employees. This information is furnished without warranty, and any use of the product not in Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Date of preparation / last revision 11/24/2 Abbreviations and acronyms:	0157 -
RID: Règlement international concernant le transport des r IATA-DGR: Dangerous Goods Regulations by the "Interna ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil A	marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) tional Air Transport Association" (IATA) Aviation Organization" (ICAO)
International National National Code Info Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information Syste LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent VPB: very Persistent and very Bioaccumulative VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial OSHA: Occupational Safety and Health Administration (US NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	n Chemical Society) em (Canada)
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial OSH4: Occupational Safety and Health Administration (19	Hygienists (USA)
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