

# Safety Data Sheet per OSHA HazCom 2012

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Environmental precations. Do not allow product to reach sewage system or any water course.	ental precautions: Do not allow product to reach sewage system or any water course.
Methods and material for containment and cleaning up: Pick up mechanically. Prevention of secondary hazards: No special measures required	nd material for containment and cleaning up: Pick up mechanically. n of secondary hazards: No special measures required
Reference to other sections	n 7 for information on safe handling
See Section 8 for information on personal protection equipment.	n 8 for information on personal protection equipment. (Contd. on page
	USA

Product name: 3-Cyclopentyl-L-alanine

See Section 13 for disposal information.

Handling Precautions for safe handling Keep container tightly sealed. 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: Store in freezer (-20 °C). 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. 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. 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

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

s r hysical and chemical properties			
Information on basic physical and ch General Information Appearance: Form: Color: Odor: Odor threshold:	emical properties Powder Off-white Not determined Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined Not determined Not determined		
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water). Viscosity: dynamic: kinematic:	Not applicable. Not applicable.		
Other information	No further relevant information available.		

## 10 Stability and reactivity

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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Heat Heat

Hazardous decomposition products: Carbon monoxide and carbon dioxide

(Contd. of page 1)

(Contd. on page 3)

Product name: 3-Cyclopentyl-L-alanine

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Nitrogen oxides		(Contd. of page 2)
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/L C50 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 n Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects know. Specific target organ system toxicity - single 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 additional toxicological information:	nown. Nn.	
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 undiluted product or large quantities to reach ground water, wa 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.	ater course or sewage system.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure pro Uncleaned packagings: Recommendation: Disposal must be made according to official regulations	, ,	
14 Transport information		
UN-Number	Not applicable	
DOT, ADN, IMDG, IATA UN proper shipping name	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	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	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC		
Transport/Additional information:		
DOT Marina Pollutant (DOT):	No	
Marine Pollutant (DOT): UN "Model Regulation":	No -	
<ul> <li>15 Regulatory information</li> <li>Safety, health and environmental regulations/legislation specific for the GHS label elements Not applicable</li> <li>Hazard pictograms Not applicable</li> <li>Bignal word Not applicable</li> <li>Hazard statements Not applicable</li> <li>Hazard statements Not applicable</li> <li>Hazard statements Not applicable</li> <li>Mational regulations</li> <li>This product is not listed in the U.S. Environmental Protection Agency Toxic to research and development only. This product must be used by or directly product must not be used for commercial purposes or in formulations for coordinations for coordinations for coordinations of coordinations of the Canadian Domestic Substances List (DSL)</li> <li>SARA Section 313 (specific toxic chemical listings) Substance is not listed.</li> <li>Prop 65 - Chemicals known to cause cancer Substance is not listed.</li> <li>Prop 65 - Developmental toxicity, female Substance is not listed.</li> <li>Prop 65 - Developmental toxicity, male Substance is not listed.</li> <li>Prop 65 - Developmental toxicity, male Substance is not listed.</li> <li>Information about limitation of use: For use only by technically qualified of the conditions of restrictions according to Article 67 and Annex XVI of market and use must be observed.</li> <li>Substance is not listed.</li> <li>Annex XIV of the REACH Regulations (requiring Authorisation for use), Chemical safety assessment: A Chemical Safety Assessment has not be</li> </ul>	c Substances Control Act Chemical Substance Inventory. Use of this provunder the supervision of a technically qualified individual as defined by immercial purposes. or the Canadian Non-Domestic Substances List (NDSL). ted. individuals. <b>julations (EC) No. 1907/2006.</b> Substance is not listed. <b>of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing</b>	, placing on the
		(Contd. on page 4)

# Product name: 3-Cyclopentyl-L-alanine

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### 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. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation CAS: Chemical Abstracts Service, (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LDS0: Lethal concentration, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IAPC: International Zafety and Health Administration (USA) NTP: National Toxicology Program (USA) IAPC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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USA