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Product name: S-Opcilonery/L-alanine Stock number: Stock number:	1 Identification	
Bock Mumber: H85317 Bock Mu		
SAM Support Constraint Support Definition Support <	Product name: 3-Cyclohexyl-L-alanine	
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(Contd. on page USA	See Section 8 for information on personal protection equipment.	(Control)
		USA -

Product name: 3-Cyclohexyl-L-alanine

See Section 13 for disposal information.

7 Handling and storage

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: Refrigerate 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.

Refrigerate

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 General protective and hygienic measures

General protective and fiygienic 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

The selection of suitable 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

9 Physical and chemical properties	
Information on basic physical and che General Information Appearance: Form: Odor: Odor: Odor threshold:	emical properties Powder 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:	Not determined.
Lower: Upper:	Not determined Not determined
Vapor pressure: Density:	Not applicable. Not determined
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate Solubility in / Miscibility with	Not applicable.
Water:	Not determined
Partition coefficient (n-octanol/water):	· Not determined.
Viscosity:	Netapplicable
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 Hazardous decomposition products: Carbon monoxide and carbon dioxide

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(Contd. of page 1)

Product name: 3-Cyclohexyl-L-alanine

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Nitrogen oxides		(Contd. of page 2)
Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exp Specific target organ system toxicity - single expos Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known.	ic properties of this material is available from the EPA, IARC, NTP, OSHA or AC posure: No effects known. sure: No effects known. our knowledge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant information availa Persistence and degradability No further relevant info Bioaccumulative potential No further relevant information Mobility in soil No further relevant information availab Additional ecological information: General notes: Do not allow undiluted product or large quantities to rea Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information	ormation available. ation available. le. ach ground water, water course or sewage system.	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local or national regu Uncleaned packagings: Recommendation: Disposal must be made according		
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	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 MARPOL		
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":		
to research and development only. This product must hot be used for commercial purposes or i This product is not listed on the Canadian Domestic SU SARA Section 313 (specific toxic chemical listings) California Proposition 65 Prop 65 - Chemicals known to cause cancer Substa Prop 65 - Developmental toxicity, Substance is not lis Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, male Substance is Information about limitation of use: For use only by Other regulations, limitations and prohibitive regula	ntection Agency Toxic Substances Control Act Chemical Substance Inventory. U be used by or directly under the supervision of a technically qualified individual as in formulations for commercial purposes. Ibstances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). Substance is not listed. Substance is not listed. is not listed. is not listed. technically qualified individuals. ations to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 57 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the mat	s defined by TSCA. This
		(Contd. on page 4)

Product name: 3-Cyclohexyl-L-alanine

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. 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 06/03/2016 / - Abbreviations and accoryms: 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 3)

USA