



1 Identification Product identifier Product name: R-(-)-2-Phenylglycinol Stock number: A19030, L13150 CAS Number: 56613-80-0 EC number: 260-287-5 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 Precadionary 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. P405 Store locked um P405 Store locked um 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: 56613-80-0 R-(-)-2-Phenylglycinol Identification number(s): EC number: 260-287-5 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.

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(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 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 Concentration for 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: Not required. Additional information: No data Automati 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 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: Powder Color: Off-white Odor: Odor threshold: Not determined Not determined. Not applicable. pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: 75-77 °C (167-171 °F) Not determined Sublimation temperature / start: Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Not determined. Not determined

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Results of PBT and vPvB assessment PBT: Not applicable. Other adverse effects No further relevant information available. Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. Transport information Not a hazardous material for transportation. UN-Number DOT, IMDG, IATA None UN Proper shipping name DOT, ADR, IMDG, IATA None Transport hazard class(es) DOT, ADR, IMDG, IATA None Packing group DOT, IMDG, IATA None Fanvironmental hazards: Not applicable. Special precautions for user Not applicable. Special precautions for user Not applicable.	Avoid transfer into the environment.		
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	Reviewed on 01/25/2
duct name: R-(-)-2-Phenylglycinol	
	(Contd. of page
Transport/Additional information: DOT	Not dangerous according to the above specifications.
Marine Pollutant (DOT):	No
Regulatory information	
Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled Hazard pictograms	on specific for the substance or mixture d in accordance with 29 CFR 1910 (OSHA HCS)
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/vap P280 Wear protective gloves/protective cloth	hing/eve protection/face protection
2305+P351+P338 IF IN EYES: Rinse cautiously with wate P304+P340 IF INHALED: Remove person to fresh a P405 Store locked up.	er for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. air and keep comfortable for breathing.
	rdance with local/regional/national/international regulations.
This product is not listed in the U.S. Environmental Protec to research and development only. This product must be u product must not be used for commercial purposes or in fo SARA Section 313 (specific toxic chemical listings) Su	ction Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restri used by or directly under the supervision of a technically qualified individual as defined by TSCA. This ormulations for commercial purposes. ubstance is not listed.
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance	e is not listed.
Prop 65 - Developmental toxicity Substance is not listed Prop 65 - Developmental toxicity, female Substance is Developmental toxicity, female Substance is	not listed.
Prop 65 - Developmental toxicitý, male Substance is no nformation about limitation of use: For use only by tec befor regulations, limitations, and problem for a substance of the substance of the substance of	chnically qualified individuals.
Substance of Very High Concern (SVHC) according to Fue conditions of restrictions according to Article 67 a market and use must be observed.	ons b the REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
Substance is not listed. Annex XIV of the REACH Regulations (requiring Autho	orisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Asses	sment has not been carried out.
information to ensure proper use and protect the health ar	ent to other information gathered by them, and should make independent judgement of suitability of this nd safety of employees. This information is furnished without warranty, and any use of the product not ombination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms:	
IDG: International Maritime Code for Dangerous Goods OT: US Department of Transport Association INECS: European Inventory of Existing Commercial Chemical Substances AS: Chemical Abstracts Service (division of the American Chemical Society MIS: Hazardous Materials Identification System (USA) IMMIS: Workplace Hazardous Materials Information System (Canada) CS0: Lethal concentration, 50 percent DS0: Lethal dose, 50 percent PVB: very Persistent and very Bioaccumulative CGH: American Conference of Governmental Industrial Hydienists (USA)	γ)
rnivis, workpiece Hazardous Materials Information System (Canada) C50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent	
PVB: very Persistent and very Bioaccumulative CGIH: American Conference of Governmental Industrial Hygienists (USA) JSHA: Occupational Safety and Health Administration (USA) ITP: National Toxicology Program (USA) ARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	
NTD: National Taxiaalagu Program (USA)	