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Material Safety Data Sheet

4-Hydroxy-D-phenylglycine MSDS

Section 1: Chemical Product and Company Identification	
Product Name: 4-Hydroxy-D-phenylglycine	
Catalog Numbers: /	
Synonyms: D(-)Alpha Parahydroxy Phenylglycine; D(-)-4-Hydroxy Phenylglycine	
CAS No.: 22818-40-2	
Chemical Formula: C8H9NO3	
Molecular Weight: 167.16	
Contact Information for Emergency: (0086) 551 65418681	
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Section 2: Composition and Information on Ingredients		
CAS#	Chemical Name	Weight %
22818-40-2	4-Hydroxy-D-phenylglycine	100

Section 3: Hazards Identification	
Classification	
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)	
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

Specific target organ toxicity (single exposure) Category 3
Target Organs - Respiratory system.

Label Elements

Signal Word

Warning

Hazard Statements

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

Section 4: First Aid Measures

Eye Contact:Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact :Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation: Remove from exposure, lie down. Move to fresh air.
Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If possible drink milk afterwards.
Most important symptoms/effects: No information available.
Notes to Physician: Treat symptomatically

Section 5: Fire and Explosion Data

Suitable Extinguishing Media Water spray. Carbon dioxide (CO₂). Dry chemical. alcohol-resistant foam.
Unsuitable Extinguishing Media No information available
Flash Point No information available
Method - No information available
Autoignition Temperature Not applicable
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available
Specific Hazards Arising from the Chemical
 Keep product and empty container away from heat and sources of ignition.
Hazardous Combustion Products
 Nitrogen oxides (NO_x) Thermal decomposition can lead to release of irritating gases and vapors Carbon monoxide (CO) Carbon dioxide (CO₂)
Protective Equipment and Precautions for Firefighters
 As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.
NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

Section 6: Accidental Release Measures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions: See Section 12 for additional ecological information.
Methods for Containment and Clean Up: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Section 7: Handling and Storage

Handling Avoid contact with skin and eyes. Avoid contact with clothing. Remove and wash contaminated clothing before re-use. Avoid breathing vapors or mists. Do not ingest. Wash thoroughly after handling.
Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ventilation systems. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection: No protective equipment is needed under normal use conditions.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Appearance: white or similar to white crystalline powder

Water solubility: 5 g/L (20°C)

Density: 1.178g/cm³

Melting point: 233-238 °C

Boiling point: 337°C at 760 mmHg

Flashing point: 149°C

Refractive index: -158 (C=1, 1mol/L HCl)

Vapour Pressure: 0.000272mmHg at 25°C

Section 10: Stability and Reactivity Data

Reactive Hazard: None known, based on information available

Stability: Stable under normal conditions.

Conditions to Avoid: Incompatible products.

Incompatible Materials: Oxidizing agents, Strong oxidizing agents

Hazardous Decomposition Products: Nitrogen oxides (NO_x), Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO₂)

Hazardous Polymerization: No information available.

Hazardous Reactions: None under normal processing.

Section 11: Toxicological Information

LD50/LC50: Not available.

Carcinogenicity: No information available

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Not available

Toxicity of the Products of Biodegradation:Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14: Transport Information

DOT: Not regulated

TDG: Not regulated

IATA: Not regulated

IMDG/IMO: Not regulated

Section 15: Other Regulatory Information

No information available

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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