

Material Safety Data Sheet

Date Created 02/26/2008
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Version 1.2

Section 1-Product Information

Product name Glutathione Resin
Product Cat. No. L00206

Section 2-Composition / Information on Ingredients

Substance/Preparation:	Preparation	
Ingredient Name	CAS No.	Formula
Glutathione Resin	N/A	N/A

Section 3- Hazards Identification

Emergency Overview The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

NFPA Rating
Health 0
Flammability 0
Reactivity 0

For additional information on toxicity, please refer to Section 11.

Section 4- First Aid Measures

Oral Exposure If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eye Exposure In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5- Fire Fighting Measures

Flash Point Not available
Autoignition Temp Not available
Flammability Not available
Extinguishing Media
Suitable Carbon dioxide, dry chemical powder, or appropriate foam.
Water spray

Fire Fighting
Protective Equipment Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s) Not available

Section 6- Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Procedure(s) of Personal Precaution(s) Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

Methods for Cleaning up Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7-Handling and Storage

Handling	
User Exposure	Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage	
Suitable	Store Glutathione Resin in Phosphate Buffer saline containing 20% ethanol at 2-8 °C, do not freeze. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Section 8-Exposure Controls/Personal Protection Equipment

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protective equipment	
Respiratory	Not available
Other	Eyes: Safety glasses. Protective Clothing (Pictograms):
General Hygiene Measures	Wash thoroughly after handling

Section 9- Physical and Chemical Properties

Appearance	Glutathione Resin
Physical State	Slurry
Color	White
Property	
Molecular Weight	Not available
pH	Not available
BP/BP Range	Not available
MP/MP Range	Not available
Freezing Point	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Saturated Vapor Conc.	Not available
SG/Density	Not available
Bulk Density	Not available
Odor Threshold	Not available
Volatile%	Not available
VOC Content	Not available
Water Content	Not available
Solvent Content	Not available
Evaporation Rate	Not available
Viscosity	Not available
Surface Tension	Not available
Partition Coefficient	Not available
Decomposition Temp.	Not available
Flash Point	Not available
Explosion Limits	Not available
Flammability	Not available
Autoignition Temp	Not available
Refractive Index	Not available
Optical Rotation	Not available
Miscellaneous Data	Not available
Solubility	Not available

Section 10- Stability and Reactivity

Stability	
Stable	Stable

Hazardous Decomposition Products	
Hazardous Decomposition Products	Not available
Hazardous Polymerization	
Hazardous Polymerization	Will not occur

Section 11- Toxicological Information

Route of Exposure	
Skin Contact	May cause skin irritation
Skin Absorption	May be harmful if absorbed through the skin
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract, May be harmful if inhaled.
Ingestion	May be harmful if swallowed
Conditions Aggravated by Exposure	The toxicological properties have not been thoroughly investigated.

Section 12- Ecological Information

Eco-toxicity	Not available
Toxicity of The Products of Biodegradation	Not available

Section 13- Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.
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Section 14- Transport Information

DOT	
Proper Shipping Name	None
Non-Hazardous for Transport	This substance is considered to be non-hazardous for transport.
IATA	
Non-Hazardous for Air Transport	Non-hazardous for air transport

Section 15- Regulatory Information

US Classification and Label Text	
US Statements	Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.
United States Regulatory information	
SARA Listed	Not available
Canada Regulatory information	
WHMIS Classification	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL	Not available
NDSL	Not available

Section 16- Other Information

GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.