

Safety Data Sheet

Section 1: Identification

Product identifier

Product Name: Glutathione S-Transferase

Product Code: Z02039-1

Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Hazard Communication & Compliance

Details of the supplier of the safety data sheet

Manufacturer: GenScript
860 Centennial Ave.
Piscataway, NJ 08854 United States
www.genscript.com
product@genscript.com

Telephone (General): 1-732-885-9188

Emergency telephone number

Manufacturer: 1-877-436-7274

Section 2: Hazards identification

According to OSHA 29 CFR 1910.1200 HCS

Emergency Overview: Aqueous solution. Toxicological properties of components have not been fully investigated.

Health Effects: Not classified

Inhalation: Not known to present an inhalation hazard under normal use.

Skin: Causes skin irritation

Eyes: Causes serious eye irritation

Ingestion: May be harmful if swallowed.

Chronic Effects/Target Organ Effects: None known.

Medical Conditions Aggravated By Exposure: None known.

Environmental Effects: None known.

Section 3 - Composition/Information on Ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Section 4: First-Aid Measures

Inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Skin	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	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.
Ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:	Carbon dioxide, dry chemical powder, or appropriate foam. Water spray
Special Exposure Hazards:	This product is water-based and is expected to present a negligible fire hazard. However, under fire conditions the residual organic components can burn generating toxic and irritating gases and/or smoke. Evacuate area and fight fire from safe distance.
Special protective equipment for firefighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 - Accidental Release Measures

Personal Precautions	Always wear recommended Personal Protective Equipment. Use personal protection equipment.
Methods for cleaning up	Soak up with inert absorbent material.
Environmental precautions	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Section 7 - Handling and Storage

Handling: Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

Storage: Keep in a dry, cool and well-ventilated place.

Keep container closed when not in use.

Section 8 - Exposure Controls/Personal Protection

Exposure Limit Values: None established

Exposure Controls: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Respiratory Protection: Respiratory protection not required in normal conditions.

Eye/Face Protection: Chemical goggles or safety glasses.

Skin/Hand Protection: Wear protective gloves.

Section 9 - Physical and Chemical Properties

General information

Form	Lyophilized powder
Appearance	White
Odor	No data available
Odor Threshold	No data available
Boiling point / boiling range	No data available
Melting point / melting range	No data available
Flash point:	No data available
Autoignition Temperature	No data available
Oxidizing properties	No data available
Water solubility	No data available

Section 10: Stability and Reactivity

Reactivity

No additional information available

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Not established.

Conditions to avoid

High temperatures, sparks, open flames and live electrical circuits.

Incompatible materials

Oxidizing agents, strong acids.

Hazardous decomposition products

None.

Section 11 - Toxicological Information**Acute Toxicity**

No toxicology information is available.

Principle Routes of Exposure Potential Health Effects

Eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	None.

Section 12 - Ecological Information**Ecotoxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility	No information available.
Biodegradation	Inherently biodegradable.
Bioaccumulation	Material does not bioaccumulate.

No Ecological information is available.

Section 13 - Disposal Considerations

Product waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

Proper Shipping Name	No dangerous good in sense of these transport regulations
Hazard Class	None
Subsidiary class	None
Packing group	None
UN-No	None

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

US Regulations:

This product meets the following SARA 311/312 hazard categories: none.

This product contains the following SARA 302 Extremely Hazardous Substances: none.

This product contains the following SARA 313 Toxic Chemicals: none.

This product contains the following CERCLA Hazardous Substances: none.

The components of this product are listed on TSCA.

EU Regulations:

This product does not meet the classification and labeling criteria under 1999/45/EC as a dangerous preparation.

The components of this product are listed on the European Inventory of Existing Chemical Substances (EINECS) or meet the polymer exemption.

Canadian Regulations:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and it contains the information required by the CPR.

This product meets WHMIS classification D2B.
Components of this product are listed on the DSL.

Section 16 - Other Information

Date Created	04/21/2011
Date Updated	03/06/2018
Version	1.2
Disclaimer/Statement of Liability	This information is furnished without warranty, expressed, or implied, except that it is accurate to the best knowledge of Genscript. The data on this sheet relates only to the specific material designated herein. Genscript, assumes no legal responsibility for the use or reliance upon these data. Information provided is based on information available to the company. Recipients should conduct their own risk assessments to consider their special circumstances.