

SAFETY DATA SHEET

GLYBase™

High Purity Sodium Glycolate

Version: 3.0 | Revised: 07/09/2026 | Supersedes: 09/16/2025 (V2.0)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name:	GLYBase™
Trade Name:	GLYBase™ is a trademark of CrossChem Limited
Synonyms:	Glycolic Acid, Sodium Salt; Sodium Hydroxyacetate
Product Code:	4100
Chemical Family:	Sodium salt of an alpha-hydroxy carboxylic acid

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified Uses: Laboratory chemicals; manufacture of substances; personal care formulation.

Uses Advised Against: Not for food, pharmaceutical, or animal-feed use.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CrossChem Limited
Address	100 Westwood Place, Brentwood, TN 37027, United States
Telephone	+1 615 716 3510
Email	regulatory@crosschem.net
Website	www.crosschem.net

1.4 Emergency Telephone Number

CHEMTREC (24-hour)	+1 800-424-9300 (US/Canada); +1 703-527-3887 (International, collect)
CHEMTREC Contract No.	CCN5881

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008 (CLP) and OSHA Hazard Communication Standard (29 CFR 1910.1200):

Hazard Class	Category	Hazard Statement
Skin Corrosion / Irritation	Category 2	H315 – Causes skin irritation
Serious Eye Damage / Eye Irritation	Category 2A	H319 – Causes serious eye irritation
STOT – Single Exposure (respiratory)	Category 3	H335 – May cause respiratory irritation

2.2 Label Elements

Signal Word:	WARNING
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Hazard Statements:

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Statements – Prevention:

P261	Avoid breathing dust, fume, gas, mist, vapors, or spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, eye protection, and face protection.

Precautionary Statements – Response:

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

Precautionary Statements – Storage and Disposal:

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents and container in accordance with local, regional, national, and international regulations.

2.3 Other Hazards

This substance does not meet the criteria for PBT or vPvB per Annex XIII of REACH and is not identified as having endocrine-disrupting properties under Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Component	CAS No.	EC No.	Conc. %	CLP Classification
Sodium glycolate	2836-32-0	220-624-9	≤ 100	Skin Irrit. 2 (H315); Eye Irrit. 2A (H319); STOT SE 3 (H335)

Molecular weight 98.03 g/mol; molecular formula $C_2H_3NaO_3$. For the full text of H-statements referenced above, see Section 16.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the attending physician. Move affected person to fresh air.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation persists.

Skin Contact: Immediately flush with water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Professionally launder clothing and shoes before reuse.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop, seek medical attention. If breathing is difficult, give oxygen.

Ingestion: Seek medical attention. Wash out mouth with water if person is conscious. Do not induce vomiting.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

May cause irritation of the eyes, skin, and respiratory tract. See Sections 2 and 11.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically. No specific antidote known.

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable	Water, dry chemical, carbon dioxide (CO ₂), or alcohol-resistant foam. For large fires use water spray, fog, or foam.
Unsuitable	None known.

5.2 Special Hazards Arising from the Substance or Mixture

Flash Point	Not applicable (does not flash)
Explosive Limits	Not applicable
Autoignition Temperature	Not applicable

Hazardous Combustion Products: Smoke, soot, carbon monoxide, carbon dioxide, and acidic/irritating fumes.

5.3 Advice for Firefighters

Firefighters must wear NIOSH-approved positive-pressure self-contained breathing apparatus (SCBA) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Isolate the area and keep unnecessary and unprotected personnel from entering. Avoid generating dust. Wear appropriate personal protective equipment as described in Section 8.

6.2 Environmental Precautions

Do not let product enter drains, sewers, or bodies of water. Contain material with a dike or barrier. Prevent contamination of soil and water.

6.3 Methods and Material for Containment and Cleaning Up

Vacuum or sweep up material, avoiding dust generation, and place in a closed, labeled chemical waste container for disposal. Ventilate the area and wash the spill site after material pickup is complete. Dispose of according to applicable local, state/regional, and federal regulations.

6.4 Reference to Other Sections

See Section 8 for exposure controls and Section 13 for disposal considerations.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Avoid handling and inhalation of dust, mist, and vapors. Minimize dust generation and accumulation. Keep container tightly closed. Use only in a chemical fume hood or with adequate local exhaust ventilation. Wash thoroughly after handling.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store product in a dry, well-ventilated area away from heat, ignition sources, and direct sunlight. Keep containers tightly closed. Storage class (TRGS 510): Non-combustible solids.

Transfer: Follow good manufacturing and handling practices. Since the material is hygroscopic, eliminate sources of humidity during handling or transfer. Do not breathe dust. Avoid prolonged or repeated exposure.

Incompatibilities: Strong oxidizing agents; strong bases; strong acids.

Empty Container Precautions: Empty containers may retain product residue. Follow all label precautions until containers are professionally cleaned or destroyed.

7.3 Specific End Use(s)

No uses are specified beyond those identified in Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Controls

Engineering Controls: Local exhaust ventilation is recommended where dusts can be released. Provide eye-wash stations and safety showers in the immediate work area.

Personal Protective Equipment:

Eye / Face Protection	Safety glasses with side-shields (EN 166 / ANSI Z87.1); chemical splash goggles where dust or splash potential exists.
Skin / Hand Protection	Impervious chemical-resistant gloves. Inspect gloves before use; replace if damaged. Consult glove manufacturer for specific application guidance.
Body Protection	Impervious protective clothing appropriate to the exposure.
Respiratory Protection	For nuisance dust exposures use a NIOSH-approved P95 (US) or P1 (EU EN 143) particulate respirator; for higher levels use OV/AG/P100 (US) or ABEK-P2 (EU) cartridges. Programs must comply with 29 CFR 1910.134 (US) or CEN (EU).

Hygiene Measures: Wash hands and face thoroughly after handling. Do not eat, drink, or smoke in work areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical State	Solid (crystalline)
Appearance	White powder
Color	White to almost white
Odor	Odorless / not applicable
pH	Not applicable (solid)
Melting Range	210 – 218 °C
Boiling Point	Not applicable
Flash Point	Not applicable
Solubility in Water	Soluble
Vapor Pressure	Not applicable
Relative Density / Specific Gravity	Not determined
Explosive Properties	Not explosive
Oxidizing Properties	Not oxidizing

The physical data presented above are typical values and should not be construed as a specification.

9.2 Other Information

Particle Characteristics	Powder / crystalline solid; minimize dust generation.
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10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known under recommended handling conditions.

10.2 Chemical Stability

Stable under normal ambient conditions of temperature and pressure in closed, original containers.

10.3 Possibility of Hazardous Reactions

Hazardous polymerization has not been reported.

10.4 Conditions to Avoid

Dust generation, incompatible materials, and humid conditions.

10.5 Incompatible Materials

Strong oxidizing agents; strong bases; strong acids.

10.6 Hazardous Decomposition Products

May decompose emitting toxic fumes when heated: carbon monoxide, carbon dioxide, sodium oxides, and acrid smoke and fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Hazard Classes as Defined in Regulation (EC) No 1272/2008

Acute Toxicity:

Route	Species	Value	Source
Oral	Rat	LD50 = 7,110 mg/kg	Sodium glycolate
Oral	Mouse	LD50 = 6,700 mg/kg	Sodium glycolate

Not classified for acute toxicity based on available data.

Skin Corrosion / Irritation: Classified as Skin Irrit. 2 (H315 – Causes skin irritation).

Serious Eye Damage / Eye Irritation: Classified as Eye Irrit. 2A (H319 – Causes serious eye irritation).

Respiratory or Skin Sensitization: Not expected to occur. Not classified.

Germ Cell Mutagenicity / Carcinogenicity / Reproductive Toxicity: No component present at $\geq 0.1\%$ is identified as a carcinogen by IARC, NTP, OSHA, or ACGIH. Not classified.

STOT – Single Exposure: Classified as STOT SE 3 (H335 – May cause respiratory irritation).

STOT – Repeated Exposure / Aspiration Hazard: No data available. Not classified.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No aquatic toxicity data available for the substance. Sodium glycolate is the sodium salt of a readily biodegradable alpha-hydroxy acid; avoid uncontrolled release to the environment.

12.2 Persistence and Degradability

No specific study data available. The glycolate anion is expected to be readily biodegradable.

12.3 Bioaccumulative Potential

No bioaccumulation potential expected (highly water-soluble, low log Kow).

12.4 Mobility in Soil

Highly water-soluble; expected to be mobile in soil.

12.5 Results of PBT and vPvB Assessment

PBT/vPvB assessment not available as a chemical safety assessment was not required/not conducted.

12.6 Other Adverse Effects

No other adverse environmental effects known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Product: Offer surplus and non-recyclable material to a licensed disposal company. Dispose of in accordance with all applicable local, state/regional, national, and international regulations.

Contaminated Packaging: Dispose of as unused product through a licensed facility. Federal regulations may apply to empty containers; state and/or local regulations may be different.

14. TRANSPORT INFORMATION

US DOT, IMDG, IATA, ADR/RID: Not classified as hazardous for transport.

UN Number	None (not regulated)
Proper Shipping Name	Not regulated for transport
Transport Hazard Class	None
Packing Group	None
Environmental Hazards	Not a marine pollutant

15. REGULATORY INFORMATION

15.1 Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture

United States:

OSHA HCS (29 CFR 1910.1200)	Classified as hazardous. This SDS conforms to the May 2024 amendment to the Hazard Communication Standard (89 FR 44144; effective July 19, 2024).
TSCA Inventory	Listed on the TSCA Inventory or exempt. TSCA Significant New Use Rule: not listed.
SARA Title III, §302	No components subject to reporting.
SARA Title III, §313	No components exceed the de minimis reporting threshold.
CERCLA	Not listed.
California Proposition 65	Not listed.

Canada:

WHMIS 2015 (HPR)	Skin Irritation – Category 2; Eye Irritation – Category 2A; STOT – Single Exposure – Category 3. Complies with the Hazardous Products Regulations (SOR/2015-17).
DSL / NDSL	Listed on the Domestic Substances List (DSL).

European Union / United Kingdom:

SDS Format – (EU) 2020/878	Prepared in accordance with Commission Regulation (EU) 2020/878 amending Annex II of REACH.
CLP – (EC) No 1272/2008	Classified and labeled as shown in Section 2.
REACH / UK REACH	Coverage applicable to product supplied through CrossChem Limited's authorized distribution channels. A controlled statement is available to qualified customers upon request. SVHC: to the best of CrossChem's knowledge, this product does not contain SVHCs at ≥0.1% w/w on the Article 59(1) candidate list.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this substance.

16. OTHER INFORMATION

Full Text of H-Statements Referenced in Sections 2 and 3

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Hazard Rating Systems

Category	HMIS III	NFPA 704
Health	2	2
Flammability	0	0
Physical Hazard / Reactivity	0	0
Personal Protection	X (consult supervisor)	—

Rating scale: 0 = minimal, 4 = severe. Health rating updated to 2 to reflect the Category 2 skin/eye irritant classification (legacy sheet listed 0).

Key to Abbreviations and Acronyms

Acute Tox.	Acute toxicity
ACGIH	American Conference of Governmental Industrial Hygienists
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act (US)
CLP	Classification, Labelling and Packaging Regulation (EC) No 1272/2008
DOT	Department of Transportation (US)
DSL	Domestic Substances List (Canada)
EC	European Community
ECHA	European Chemicals Agency
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
HMIS	Hazardous Materials Identification System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health (US)
NTP	National Toxicology Program (US)
OSHA	Occupational Safety and Health Administration (US)
PBT	Persistent, bioaccumulative, and toxic
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
SARA	Superfund Amendments and Reauthorization Act
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity – single exposure
STOT RE	Specific target organ toxicity – repeated exposure
SVHC	Substance of Very High Concern
TSCA	Toxic Substances Control Act (US)
UN	United Nations
vPvB	Very persistent and very bioaccumulative
WHMIS	Workplace Hazardous Materials Information System (Canada)

Revision Information

Version	3.0
Revision Date	July 9, 2026
Supersedes	Version 2.0 (September 16, 2025)
Summary of Changes	Reformatted to current CrossChem Limited SDS template; full alignment with OSHA HCS May 2024 amendment (89 FR 44144) and CLP (EC) No 1272/2008. Section numbering expanded to the full 16-section structure. Corrected supplier legal name to CrossChem Limited; corrected clerical errors (e.g., 'respiratory' spelling, placeholder supersedes date, WHMIS entry expressed to match the product's own GHS classification). Hazard classification unchanged (H315 / H319 / H335). [REVIEW FLAG: legacy HMIS health rating of 0 appeared inconsistent with the Category 2 irritant classification and has been set to 2 — please confirm.]

Product Use: Laboratory chemicals; manufacture of substances; personal care formulation.

Disclaimer

The information contained herein relates only to the specific material identified and is believed by CrossChem Limited to be accurate and reliable as of the date of issue. However, no representation, guarantee, or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. CrossChem Limited shall not be liable for any damage resulting from handling or contact with this product. Users are responsible for satisfying themselves as to the suitability and completeness of this information for their particular application and for compliance with all applicable laws and regulations. This SDS supersedes all previous editions for this product.

— End of Safety Data Sheet —