



SAFETY DATA SHEET

SECTION 1. Identification

Product Name: D-Glucosamine HCl
Company: Mid-West Nutrition, Inc.
Address: 925 W 6th St. Fremont, NE 68025

SECTION 2. Hazards Identification

Classification:

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Label Elements:

None required.

Hazards not otherwise classified (HNOC):

None identified.

HMIS:

Health: 1
Flammability: 1
Reactivity: 0

SECTION 3. Composition / Information on Ingredient

Substance Name: D-Glucose, 2-amino-2-deoxy-, hydrochloride
CAS #: 66-84-2
Molecular Formula: C₆H₁₃NO₅ • HCl
Molar Weight: 215.64
Weight %: ≥ 99%

SECTION 4. First-Aid Measures

Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Ingestion:

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Inhalation:

Move to fresh air. Get medical attention immediately if symptoms occur.

Skin Contact:

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

SECTION 5. Fire-Fighting Measures

Flash Point: N/A

Autoignition Temp: N/A

Flammability: N/A

Suitable Extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Firefighting:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NISOH (approved or equivalent) and full protective gear.

NFPA:

Health: 1

Flammability: 1

Reactivity: 0

SECTION 6. Accidental Release Measures

Personal Precautions:

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Environmental Precautions:

Should not be released into the environment. See Section 12 for additional ecological information.

Methods for Cleaning up:

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

SECTION 7. Handling and Storage

Handling:

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage:

Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8. Exposure Controls / Personal Protection

Engineering Controls:

None under normal use conditions.

Personal Protective Equipment:

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

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

Eye/face: Wear appropriate protective eyeglasses or chemical safety goggles.

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

SECTION 9. Physical and Chemical Properties

Appearance: White crystalline powder

Odor: N/A

pH: 3.0 – 5.0

Melting Point/Range: 190 – 194 °C

Boiling Point/Range:	N/A
Vapor Pressure:	< 0.0001 Pa @ 25 °C
Vapor Density:	N/A
Bulk Density:	≥ 0.70 g/cm ³
Evaporation Rate:	N/A
Solubility:	Soluble in water.

SECTION 10. Stability and Reactivity

Reactive Hazard:

None known based on information available.

Stability:

Stable under recommended storage conditions.

Conditions to Avoid:

Incompatible products. Excess heat. Avoid dust formation.

Hazardous Decomposition Products:

Hydrogen chloride gas, Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂).

Hazardous Polymerization:

Does not occur.

Hazardous Reaction:

None under normal processing.

SECTION 11. Toxicological Information

Route of Exposure:

Skin Contact: Due to lack of data the classification is not possible.

Eye Contact: Due to lack of data the classification is not possible.

Inhalation: Due to lack of data the classification is not possible.

Ingestion: Due to lack of data the classification is not possible

Toxicity to Animals:

Acute oral toxicity (LD₅₀) is 15 g/kg (Mouse).

Symptoms of Exposure:

No information available.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, and OSHA.

Mutagenic Effects: No information available.

Reproductive Effects: No information available.

Developmental Effects: No information available.

Teratogenicity: No information available.

Aspiration Hazard: No information available.

Other Adverse Effects:

The toxicological properties have not been fully investigated.

SECTION 12. Ecological Information

Ecotoxicity: Do not empty into drains.

Persistence and Degradability: No information available.

Bioaccumulation/Accumulation: No information available.

Mobility in Soil: No information available.

SECTION 13. Disposal Consideration

Waste Disposal Methods:

This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

SECTION 14. Transport Information

DOT: Not regulated.

TDG: Not regulated.

IATA: Not regulated.

IMDG/IMO: Not regulated.

SECTION 15. Regulatory Information

US Federal Regulations:

TSCA 12(b)	Not applicable.
SARA 313	Not applicable.
SARA 311/312 Hazardous Categorization	Not applicable.
Clean Water Act	Not applicable.
Clean Air Act	Not applicable.
OSHA	Not applicable.
CERCLA	Not applicable.
California Proposition 65	Not contain any Proposition 65 chemicals.
State Right-to-Know	Not applicable.
U.S. Department of Transportation	Not applicable.
U.S. Department of Homeland Security	Not contain any DHS chemicals.

International Inventories:

Country or Region	Inventory Name	On Inventory
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No

SECTION 16. Other Information

Disclaimer: The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.