GREEN VALLEY LABORATORY

Safety Data Sheet

Prepared in the format of Regulation (EC) No 1907/2006 (REACH) Annex II as amended by Regulation (EU) 2020/878, with classification according to Regulation (EC) No 1272/2008 (CLP) and the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

SECTION 1 - Identification

1.1 Product identifier

GHS Product Identifier	Inositol
Chemical name	myo-Inositol
Synonyms	meso-Inositol; 1,2,3,5/4,6-Hexahydroxycyclohexane
CAS No.	87-89-8
EC No.	201-781-2
Molecular formula	C6H12O6
Molecular weight	180.16 g/mol

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

Identified use(s)	Raw material for further manufacturing
Uses advised against	Other than identified

1.3 Details of the supplier of the Safety Data Sheet

Supplier Name	Green Valley Laboratory
Address	435 Hartford Pike, Killingly, CT 06241, USA
Contact	Help@dauphineorganics.com
Phone	n/a

1.4 Emergency telephone number

Emergency Phone No.	CHEMTREC Emergency Call Center +1 800-424-9300 (US & Canada) - +1 703-527-3887 (Europe)

SECTION 2 - Hazard Identification

2.1 Classification of the substance or mixture

Classification basis	Published safety data for myo-inositol (CAS 87-89-8)
Physical hazards	Not classified
Human health	Not classified
Environment	Not classified

Not a hazardous substance or mixture according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS). Hazards not otherwise classified (HNOC) or not covered by GHS: none.

2.2 Label elements

Hazard Pictogram	None required
Signal word(s)	None
Hazard statement(s)	None

Precautionary statement(s)	None assigned. Handle in accordance with good industrial hygiene and safety practice.

2.3 Other hazards

Avoid dust formation. Dust may cause mechanical irritation of the eyes and respiratory tract.

SECTION 3 - Composition / Information on Ingredients

3.1 Substances

Ingredient	CAS No.	Concentration	Hazardous
myo-Inositol	87-89-8	> 97 %	No

No occupational exposure limits have been established for this substance by OSHA or ACGIH.

SECTION 4 - First Aid Measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move the person out of the danger area.
Inhalation	Safely remove the person to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure a clear airway and give oxygen. Get medical attention.
Skin contact	Wash the area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.
Eye contact	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
Ingestion	Wash out the mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Direct contact may cause irritation. May cause redness, tearing or blurred vision on eye contact; reddening, itching or inflammation on skin contact; and irritation of the respiratory tract if dust is inhaled.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 - Fire Fighting Measures

Suitable extinguishing media	Water spray, carbon dioxide, dry chemical powder or appropriate foam. Use extinguishing media suitable for the surrounding fire.
Special hazards arising from the substance	May emit toxic fumes under fire conditions. Toxic gases produced: carbon dioxide and carbon monoxide.
Advice for firefighters	In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight the fire from a safe distance.

SECTION 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Use the personal protection recommended in Section 8. Avoid dust formation. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let the product enter drains.

Methods and material for containment and cleaning up	Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place the material in a dry container and cover. Remove from the area. Flush the spill area with water. Do not let the product enter drains.

SECTION 7 - Handling and Storage

Precautions for safe handling	Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Wash thoroughly after use.
Conditions for safe storage	Keep in a tightly closed container and store in a cool, dry and well-ventilated area.
Recommended storage temperature	Room temperature
Incompatibilities	No data available

SECTION 8 - Exposure Controls / Personal Protection

8.1 Control parameters

OSHA permissible exposure limits (PELs)	None established
Threshold limit values (TLVs)	None established

8.2 Exposure controls

Engineering measures	Handle in accordance with general industrial hygiene and safety practice.
Eye/face protection	Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.
Hand protection	Protective gloves
Body protection	Laboratory coat
Respiratory protection	Respiratory protection is not required. Use an N95 (US) or type P1 (EN 143) dust mask where the dust level is a nuisance. A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits.

SECTION 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Appearance	White to off-white powder
Colour	Characteristic
Odour	Odourless
Odour threshold	No data available
pH	No data available
Melting range	222 - 227 °C
Initial boiling point and boiling range	No data available
Flash point (closed cup)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	No data available
Vapour density	6.2
Specific gravity	No data available
Solubility	Soluble in water

Partition coefficient n-octanol/water	No data available
Viscosity	No data available
Evaporation rate	No data available

SECTION 10 - Stability and Reactivity

Reactivity	No data available
Chemical stability	Stable under normal conditions of use
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Strong oxidising agents
Hazardous decomposition products	Carbon oxides

SECTION 11 - Toxicological Information

11.1 Information on toxicological effects

Acute toxicity (oral)	LD50, mouse: 10,000 mg/kg
Acute toxicity (intraperitoneal, rat)	No data available
Acute toxicity (intravenous, rat)	No data available
Carcinogenicity	Not listed by NTP or IARC and not regulated as a carcinogen by OSHA
Reproductive toxicity	No data available
STOT - single exposure	No data available
STOT - repeated exposure	No data available
Target organs	None identified
Routes of entry	Inhalation, skin and eye contact
RTECS No.	NM7520800

The toxicological properties of this material have not been thoroughly investigated.

SECTION 12 - Ecological Information

Ecotoxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No data available

SECTION 13 - Disposal Considerations

Waste treatment methods	Dispose of in accordance with all applicable federal, state and local environmental regulations.

SECTION 14 - Transport Information

UN number	None assigned
UN proper shipping name	Not applicable
Transport hazard class(es)	Not applicable
Packing group	Not applicable
Land transport (US DOT)	Not regulated as dangerous goods
Sea transport (IMDG)	Not regulated as dangerous goods

Air transport (IATA)	Not regulated as dangerous goods

SECTION 15 - Regulatory Information

15.1 Safety, health and environmental regulations specific to the substance

Regulation / list	Status
United States (TSCA) Inventory	Listed
SARA Title III, Section 302 (extremely hazardous substances)	Not listed
SARA Title III, Section 304 (EHS / CERCLA)	Not listed
SARA Title III, Section 313 (toxic chemical release reporting)	Not listed
SARA Title III, Sections 311/312 (hazard categories)	No SARA hazards
Massachusetts Substance List	Not listed
Pennsylvania Hazardous Substance List (Chapter 323)	Not listed
New Jersey Right-to-Know Hazardous Substance List	Not listed
California Proposition 65	Not known to the State of California to cause cancer or reproductive toxicity

SECTION 16 - Other Information

Hazard ratings

System	Health	Flammability	Physical hazard / Instability	Personal protection / Special
HMIS	0	0	0	B
NFPA	0	0	0	-

Regulations and public sources used

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP)
Regulation (EC) No 1907/2006 (REACH), Annex II as amended by Regulation (EU) 2020/878
Globally Harmonised System of Classification and Labelling of Chemicals (GHS), United Nations
Published manufacturer safety data sheet for myo-inositol (CAS 87-89-8), revision dated 6 July 2026
USP-NF Inositol monograph
NIST Chemistry WebBook, CAS 87-89-8
Toxic Substances Control Act (TSCA) Inventory; SARA Title III (EPCRA); California Proposition 65; Massachusetts, New Jersey and Pennsylvania Right-to-Know lists
Registry of Toxic Effects of Chemical Substances (RTECS)

Abbreviations

GHS - Globally Harmonised System of Classification and Labelling of Chemicals; CLP - Classification, Labelling and Packaging; HMIS - Hazardous Materials Identification System; NFPA - National Fire Protection Association; LD50 - median lethal dose; PEL - permissible exposure limit; TLV - threshold limit value; STOT - specific target organ toxicity; RTECS - Registry of Toxic Effects of Chemical Substances.

This Safety Data Sheet was compiled from published data for this substance. It is not based on testing of the material as supplied. Users should confirm the data against the documentation supplied with the material received.

DISCLAIMER

The information provided in this Material 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.

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