



# Material Safety Data Sheet

Catalog Number: 102256  
Revision date: 10-Feb-2012

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 102256

Product Name: alpha-D-(+)-MELIBIOSE MONOHYDRATE

**Supplier:**

MP Biomedicals, LLC  
29525 Fountain Parkway  
Solon, OH 44139  
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
alpha-D-(+)-MELIBIOSE MONOHYDRATE	585-99-9	90 - 100%	None	None

## 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** May cause skin irritation and/or dermatitis

**Principle routes of exposure:** Skin

**Inhalation:** May cause irritation of respiratory tract

**Ingestion:** May be harmful if swallowed.

**Skin contact:** May cause allergic skin reaction

**Eye contact:** Avoid contact with eyes

**Statements of hazard** MAY CAUSE ALLERGIC SKIN REACTION.

**Statement of Spill or Leak - ANSI Label** Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

## 4. FIRST AID MEASURES

**General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Skin Contact** For minor skin contact, avoid spreading material on unaffected skin.

**Eye Contact** In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.

**Rinse mouth** Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

**Inhalation** Call a physician or Poison Control Center immediately.

**Notes to Physician** No information available

**Medical conditions aggravated by exposure:** None known

## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam.
<b>Specific hazards:</b>	Burning produces irritant fumes.
<b>Unusual hazards:</b>	None known
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific methods:</b>	Water mist may be used to cool closed containers.
<b>Flash point:</b>	Not determined
<b>Autoignition temperature:</b>	Not determined
<b>NFPA rating:</b>	
NFPA Health:	0
NFPA Flammability:	0
NFPA Reactivity:	0

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Ensure adequate ventilation.
<b>Environmental Precautions</b>	Local authorities should be advised if significant spillages cannot be contained.
<b>Methods for Cleaning Up</b>	Cover powder spill with plastic sheet or tarp to minimize spreading.

## 7. HANDLING AND STORAGE

### Technical Measures/Precautions

ROOM TEMPERATURE

<b>Handling</b>	No information available.
<b>Safe handling advice:</b>	Wear personal protective equipment.
<b>Incompatible products:</b>	Oxidising and spontaneously flammable products

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation.

### Hand Protection

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

**Skin and Body Protection** Pvc or other plastic material gloves

**Other Protective Equipment** Usual safety precautions while handling the product will provide adequate protection against this potential effect.

**Hygiene Measures** Contaminated work clothing should not be allowed out of the workplace.

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



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Powder
<b>Formula:</b>	C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> • H <sub>2</sub> O
<b>Molecular weight:</b>	360.3
<b>Melting point/range:</b>	184-185°C
<b>Boiling point/range:</b>	No Data available at this time.
<b>Density:</b>	No data available
<b>Vapor pressure:</b>	No data available
<b>Evaporation rate:</b>	No data available

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MONOHYDRATE

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor density:	No data available
Solubility (in water):	Soluble
Flash point:	Not determined
Autoignition temperature:	Not determined

## 10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Polymerization:	None under normal processing.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.
Materials to avoid:	Strong oxidising agents
Conditions to avoid:	Exposure to air or moisture over prolonged periods.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Acute toxicity

##### Chemical Name

alpha-D-(+)-MELIBIOSE  
MONOHYDRATE

##### RTECS Number:

Not Available

##### Selected LD50s and LC50s

Not Determined

<b>Chronic toxicity:</b>	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
<b>Local effects:</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Specific effects:</b>	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
<b>Primary irritation:</b>	No data is available on the product itself.
<b>Carcinogenic effects:</b>	No data is available on the product itself.
<b>Mutagenic effects:</b>	No data is available on the product itself.
<b>Reproductive toxicity:</b>	No data is available on the product itself.

## 12. ECOLOGICAL INFORMATION

<b>Mobility:</b>	No data available
<b>Bioaccumulation:</b>	No data available
<b>Ecotoxicity effects:</b>	No data available
<b>Aquatic toxicity:</b>	May cause long-term adverse effects in the aquatic environment.

<b>Chemical Name</b>	<b>U.S. DOT - Appendix B - Marine Pollutant</b>	<b>U.S. DOT - Appendix B - Severe Marine Pollutants</b>	<b>United Kingdom - The Red List:</b>
alpha-D-(+)-MELIBIOSE MONOHYDRATE	Not Listed	Not Listed	Not Listed

<b>Chemical Name</b>	<b>Germany VCI (WGK)</b>	<b>World Health Organization (WHO) - Drinking Water</b>	<b>Ecotoxicity - Fish Species Data</b>
alpha-D-(+)-MELIBIOSE MONOHYDRATE	Not Listed	Not Listed	Not Listed

<b>Chemical Name</b>	<b>Ecotoxicity - Freshwater Algae Data</b>	<b>Ecotoxicity - Microtox Data</b>	<b>Ecotoxicity - Water Flea Data</b>
alpha-D-(+)-MELIBIOSE MONOHYDRATE	Not Listed	Not Listed	Not Listed

Chemical Name	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
alpha-D-(+)-MELIBIOSE MONOHYDRATE	Not Listed	Not Listed	Not Listed

Chemical Name	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants
alpha-D-(+)-MELIBIOSE MONOHYDRATE	Not Listed	Not Listed

**13. DISPOSAL CONSIDERATIONS**

**Waste from residues / unused products:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

**Contaminated packaging:** Do not re-use empty containers

**14. TRANSPORT INFORMATION**

**DOT:**

**Proper shipping name:** Not Regulated

**U.S. DOT - Appendix A Table 1 - Reportable Quantities** Not Listed

**TDG (Canada):**

**WHMIS hazard class:** Uncontrolled

**IMDG/IMO**

**IMDG - Hazard Classifications** Not Applicable

**U.S. DOT - Appendix B - Marine Pollutant** Not Listed

**U.S. DOT - Appendix B - Severe Marine Pollutants** Not Listed

**IMO-labels:**

**15. REGULATORY INFORMATION**

**International Inventories**

alpha-D-(+)-MELIBIOSE MONOHYDRATE	
<b>TSCA</b>	Listed
<b>Canada DSL Inventory List - AICS</b>	Listed
<b>IECSC</b>	Listed
<b>EU EINECS List -</b>	Listed

**U.S. regulations:**

Chemical Name	California Proposition 65	Massachusetts Right to Know List:	New Jersey Right to Know List:	Pennsylvania Right to Know List:
alpha-D-(+)-MELIBIOSE MONOHYDRATE	Not Listed	Not Listed	Not Listed	Not Listed

Chemical Name	Florida substance List:	Rhode Island Right to Know List:	Illinois - Toxic Air Contaminants	Connecticut - Hazardous Air Pollutants
alpha-D-(+)-MELIBIOSE MONOHYDRATE	Not Listed	Not Listed	Not Listed	Not Listed

Chemical Name	SARA 313 Emission reporting/Toxic Release of Chemicals	CERCLA/SARA - Section 302 Extremely Haz	NTP:	IARC:
alpha-D-(+)-MELIBIOSE MONOHYDRATE	Not Listed	Not Listed	None	None

**SARA 313 Notification:**

The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

**State Notification:**

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

## 16. OTHER INFORMATION

**Prepared by:** Health & Safety

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**End of Safety Data Sheet**