

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 493.00

Revision Date: April 21, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Mannitol

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Mannitol

Synonym: manna sugar

CAS#: 87-78-5

SECTION 3 — HAZARDS IDENTIFICATION

White, crystalline powder or granules; faint sweet taste.

Mildly toxic by ingestion. Doses of 40 grams in humans produce only a laxative effect. Not for human consumption.

Combustible solid.

FLINN AT-A-GLANCE

Health-1

Flammability-1

Reactivity-0

Exposure-0

Storage-0

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.

Eye or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid.

Autoignition Temperature: 316 °C

Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

None

established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up and place in school trash.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines, and amides.

Store in a cool, dry place.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White, crystalline powder or granules with a faint sweet taste.
Solubility: Soluble in water. Slightly soluble in lower alcohols and amines.

Formula: C₆H₁₄O₆

Formula weight: 182.18

Melting point: 166-168 °C

Specific gravity: 1.52

Not for human consumption.

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers and heat.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Possible skin irritant, laxative

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD₅₀: 13500 mg/kg

IHL-RAT LC₅₀: N.A.

SKN-RBT LD₅₀: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply, before proceeding.

Flinn Suggested Disposal Method #26a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated

Hazard class: N/A

UN number: N/A

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (200-711-8).

SECTION 16 — OTHER INFORMATION

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**Consult your copy of the *Flinn Science Catalog/Reference Manual*
for additional information about laboratory chemicals.**