

24-Hour Emergency Telephone 908-859-2151 National Response Center 800-424-8802 Chemtrec 800-424-9300

National Response In Canada CANUTEC 613-996-6666

Outside U.S. and Canada Chemtrec 202-483-7616 SIGNALÉTIQUE

HOJAS DE DATOS

DE SEGURIDAD

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

MN806 -03

Effective:

03/09/92

Mannitol

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J.T.BAKER INC., 222 Red School Lane, Phillipsburg, NJ 08865

SECTION I - PRODUCT IDENTIFICATION

Mannitol Product Name:

1,2,3,4,5,6-Hexanehexol; Mannite Common Synonyms: Manna Sugar;

Chemical Family: Carbohydrates and Polysaccharides

Formula:

HOCH, (CHOH) 4CH, OH

Formula Wt.:

182.17 69-65-8

CAS No.: NIOSH/RTECS No .: OP2060000

Product Use:

Laboratory Reagent

Product Codes:

2554

PRECAUTIONARY LABELING

BAKER SAF-T-DATA* Sustem

HEALTH

FLAMMABILITY

REACTIVITY SLIGHT

Laboratory Protective Equipment







U.S. Precautionary Labeling

WARNING!

COMBUSTIBLE. Keep away from heat, sparks, flame. Keep in tightly closed container. thoroughly after handling. In case of fire, soak with water. In case of spill, sweep up and remove. Flush spill area with water.



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HOJAS DE DATOS DE SEGURIDAD

MATERIAL SAFETY DATA SHEET

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Page: 2 Mannitol M0806 - 03Issued: 07/10/93 03/09/92 Effective: PRECAUTIONARY LABELING (CONTINUED) International Labeling After contact with skin, wash immediately with Avoid contact with eyes. plenty of water. Keep container tightly closed. SAF-T-DATA* Storage Color Code: Red (flammable) SECTION II - COMPONENTS ACGIH/TLV Weight % Component Mannitol SECTION III - PHYSICAL DATA Vapor Pressure (mmHg): N/A Boiling Point: N/A Vapor Density (air=1): N/A Melting Point: 167°C (332°F) (at 760 mm Hg) Evaporation Rate: N/A Specific Gravity: 1.50 $(H_0^0=1)$ % Volatiles by Volume: 0 Solubility(H,O): Appreciable (>10%) (21°C) pH: N/A Physical State: Solid Odor Threshold (ppm): N/A Coefficient Water/Oil Distribution: N/A Appearance & Odor: White crystalline powder.



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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Closed Cup): N/A

Autoignition Temperature: N/A

Flammable Limits:

Upper - N/A

Lower - N/A

Fire Extinguishing Media

Use water spray, carbon dioxide, dry chemical or ordinary foam.

Special Fire-Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. water to keep fire-exposed containers cool.

<u> Unusual Fire & Explosion Hazards</u>

None identified.

Toxic Gases Produced

carbon monoxide, carbon dioxide

Explosion Data-Sensitivity to Mechanical Impact None identified.

Explosion Data-Sensitivity to Static Discharge None identified.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value (TLV/TWA): Not Established

Short-Term Exposure Limit (STEL): Not Established

Permissible Exposure Limit (PEL): Not Established

Toxicity of components

g/kg Oral Rat LD₅₀ for Mannitol 14 q/kg Intraperitoneal Mouse LD₅₀ for Mannitol 22 q/kg

Oral Mouse LD₅₀ for Mannitol

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Outside U.S. and Canada Chemtrec 202-483-7616 ATERIAL SAFETY DATA SHEET

HOJAS DE DATOS DE SEGURIDAD SIGNALÉTIQUE

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SECTION U - HEALTH HAZARD DATA (CONTINUED)

3. 我只是我们是我们的,我们也没有我们的,我们也没有我们的,我们就是我们的,我们也没有的,我们也没有我们的,我们也没有什么?"

Z List: No OSHA Req: No NTP: No IARC: No Carcinogenicity:

Carcinogenicity

None identified.

Reproductive Effects

None identified.

Effects of Overexposure

none identified INHALATION:

none identified SKIN CONTACT:

mone identified EYE CONTACT:

SKIN ABSORPTION: none identified

none identified INGESTION:

CHRONIC EFFECTS: none identified

Target Organs

eyes

Medical Conditions Generally Aggravated by Exposure

none identified

Primary Routes of Entry

eye contact

Emergency and First Aid Procedures

If swallowed and the person is conscious, immediately give INGESTION:

large amounts of water. Get medical attention.

CALL A PHYSICIAN. If inhaled, remove to fresh air. INHALATION:

breathing, give artificial respiration. If breathing is

difficult, give oxygen.

SKIN CONTACT: In case of contact, flush skin with water.

In case of eye contact, immediately flush with plenty of EYE CONTACT:

water for at least 15 minutes.



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SIGNALÉTIQUE

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SECTION U - HEALTH HAZARD DATA (CONTINUED)

SARA/TITLE III HAZARD CATEGORIES and LISTS

Acute: Yes Chronic: Yes Flammability: Yes Pressure: No Reactivity: No

Extremely Hazardous Substance: No CERCLA Hazardous Substance:

SARA 313 Toxic Chemicals:

No

TSCA Inventory:

SECTION UI - REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to Avoid:

heat, flame, other sources of ignition

Incompatibles:

strong oxidizing agents

Decomposition Products: carbon monoxide, carbon dioxide

SECTION VII - SPILL & DISPOSAL PROCEDURES

<u>Steps to be Taken in the Event of a Spill or Discharge</u> Wear suitable protective clothing. Shut off ignition sources; no flares, smoking, or flames in area. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

Disposal Procedure

Ventilation:

Dispose in accordance with all applicable federal, state, and local environmental regulations.

SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Use adequate general or local exhaust ventilation to

keep fume or dust levels as low as possible.

Respiratory Protection: None required where adequate ventilation conditions

exist. If airborne concentration is high, use an

appropriate respirator or dust mask.



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MATERIAL SAFETY DATA SHEET

FICHE SIGNALÉTIQUE HOJAS DE DATOS DE SEGURIDAD

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	SECTION VI	I - INDUSTRIAL PROTECTIVE EQUIF	PMENT (CONTINUED)
		Safety goggles, proper gloves	
		X - STORAGE AND HANDLING PRECAU	
SAF-T-DATA*	Storage Co	lor Code: Red (flammable)	
<u>Storage Reg</u> o Keep com away fro	ntainer tig	ntly closed. Store in cool, dry arks, or flame.), well-ventilated area
		RANSPORTATION DATA AND ADDITIONS	:=====================================
<u>Domestic (D</u>	<u>, O . T .)</u>		
Proper Ship	ping Name:	Chemicals, n.o.s. (Non-regulate	ed)
Internation	al (I,M.O,)		
Proper Ship	ping Name: Marin	Chemicals, n.o.s. (Non-regulate e Pollutants: No	:d)
AIR (I.C.A.	0.)		
Proper Ship	ping Name:	Chemicals, n.o.s. (Non-regulate	ed)
U.S. Custom	s Harmoniza	tion Number: 29054300001	
N/A = Not A N/E = Not E	pplicable o stablished	r Not Available	

The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and Continued on Page: 7



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face guards and respirators must be used to avoid contact with material

or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, Baker cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Baker warrants that the chemical meets the specifications set forth on the label. BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Baker will periodically revise this Material Safety Data Sheet.

Note: CHEMTREC, CANUTEC, and NATIONAL RESPONSE CENTER emergency telephone numbers are to be used ONLY in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

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