

Material Safety Data Sheet

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Section 1 - Product and Company Information

Product Number

D-SORBITOL SIGMAULTRA

Sigma Chemical

Sigma-Aldrich 3050 Spruce Street

Street Address

City, State, Zip, Country

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Section 2 - Composition/Information on Ingredient

Substance Name D(-)-SORBITOL, 99% (BIOSYNTH)

SARA 313

Formula Synonyms

Cholaxine, Diakarmon, D-Glucitol, Gulltol, L-Gulitol, Karion, Nivitin, Sionit, Sionon, Sorbicolan,

Sorbit, Sorbite, Sorbitol, D-Sorbitol, Sorbo, Sorbol, Sorbostyl, Sorvilande

Section 3 - Hazards Identification

HMIS Rating Health: 0

Flammability: 0

Reactivity: 1 Reactivity: 1

NFPA Ratings

Flammability: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Ald Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp:

Flammability:

N/A

Extinguishing Media

Suitable

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is

Section 7 - Handling and Storage

Handling User Exposure

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Keep tightly closed. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

Engineering Controls
Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory NIOSH/MSHA-approved respirator. Hand

Compatible chemical-resistant gloves.

Chemical safety goggles.

General Hygiene Measures Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Color White Form

At Temperature or Pressure

Molecular Weight: 182.17 AMU

Property Value 5.0 - 7.0

N/A BP/BP Range MP/MP Range Freezing Point Vapor Pressure 98 - 100 °C N/A

< 0.1 mmHg < 1 g/l Vapor Density

25 °C

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Saturated Vapor Conc. N/A N/A SG/Density N/A **Bulk Density** N/A Odor Threshold Volatile% N/A **VOC Content** N/A N/A Water Content Solvent Content N/A **Evaporation Rate** N/A N/A Viscosity **Partition Coefficient** N/A Decomposition Temp. N/A Flash Point °F N/A N/A Flash Point °C **Explosion Limits** N/A **Autoignition Temp** N/A Degree of Rotation: Optical Rotation

Solvent: H2O100 q/l

Solubility

Solubility in Water: 1 M in H2O, 20 C, complete, colorless

-1.8 - -1.5 (+/-0.3)

Section 10 - Stability and Reactivity

Stability

Stable Stable.

Conditions to Avoid

Protect from moisture.

Materials to Avoid

Strong oxidizing agents.

Hazardous Decomposition Products Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide.

Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

May cause skin irritation.

Eye Contact

May cause eye irritation.

Inhalation

Material may be irritating to mucous membranes and upper respiratory tract.

Multiple Routes

May be harmful by inhalation, ingestion, or skin absorption.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: LZ4290000

Toxicity Data

Oral - Rat: 15,900 mg/kg (LD50)

Subcutaneous - Rat: 29600 MG/KG (LD50) Intravenous - Rat: 7100 MG/KG (LD50)

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Oral - Mouse: 17,800 mg/kg (LD50)

Intraperitoneal - Mouse: 15 GM/KG (LD50) Subcutaneous - Mouse: 24 GM/KG (LD50) Intravenous - Mouse: 9480 MG/KG (LD50)

Chronic Exposure - Mutagen

Species 5 4 1 Hamster Dose

300 MMOL/L

Cell Type ovary

Mutation_test

Cytogenetic analysis

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

Proper Shipping Name: None

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

United States Regulatory Information

SARA 313 Listed: No

TSCA Inventory Item: Yes

Section 16 - Other Information

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