



CHEMSYNTH CORPORATION

(Exporter of chemical Raw materials)

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Material Safety Data Sheet

Dimethyl Isosorbide

Section 1: Chemical Product

Product Name: Isosorbide dimethyl ether Catalog Codes: SLI1261 Synonyms: Dimethyl isoborbide; 1,4:3,6-Dianhydrosorbitol 2,5-dimethyl ether .

Section 2: Composition and Information on Ingredients CAS# Chemical Name Percent EINECS/ELINCS 5306-85-4 Isosorbide dimethyl ether 226-159-8 Hazard Symbols: None listed. Risk Phrases: None listed.

Section 3: Hazards Identification

EMERGENCY OVERVIEW: Not available. Appearance: colorless liquid. Not available. Target Organs: None known. Potential Health Effects: Eye: May cause eye irritation. Skin: May cause skin irritation. May be harmful if absorbed through the skin. Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed. Inhalation: May cause respiratory tract irritation. May be harmful if inhaled. Chronic: Not available.

Section 4: First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Ingestion: Get medical aid. Wash mouth out with water. Inhalation: Remove from exposure and move to fresh air immediately. Notes to Physician: Treat symptomatically and supportively.

Section 5: Fire and Explosion Data General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam. Flash Point: 103 deg C (217.40 deg F) Autoignition Temperature: Not available. Explosion Limits, Lower: Not available. Upper: Not available. NFPA Rating: Not published.

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Section 7: Handling and Storage Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8: Exposure Controls/Personal Protection Engineering Controls:

Use adequate ventilation to keep airborne concentrations low. Exposure Limits: Chemical Name ACGIH NIOSH OSHA - Final PELs Isosorbide dimethyl ether none listed none listed none listed OSHA Vacated PELs: Isosorbide dimethyl ether: No OSHA Vacated PELs are listed for this chemical. Personal Protective Equipment: Eyes: Not available. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure. Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary. p. 3

Section 9: Physical and Chemical Properties

Physical State: Liquid Appearance: colorless Odor: characteristic odor pH: Not available. Vapor Pressure: Not available. Vapor Density: Not available. Evaporation Rate: Not available. Viscosity: Not available. Boiling Point: 65 deg C @0.13mbar Freezing/Melting Point: Not available. Decomposition Temperature: Not available. Solubility: Soluble. Specific Gravity/Density: 1.170 Molecular Formula: C₈H₁₄O₄ Molecular Weight: 174.19

Section 10: Stability and Reactivity Data Chemical Stability:

Not available. Conditions to Avoid: Incompatible materials. Incompatibilities with Other Materials: Strong oxidizing agents. Hazardous Decomposition Products: Carbon monoxide, carbon dioxide. Hazardous Polymerization: Has not been reported

Section 11: Toxicological Information

RTECS#: CAS#: 5306-85-4 unlisted. LD50/LC50: Not available. Carcinogenicity: CAS# 5306-85-4: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. Epidemiology: No data available. Teratogenicity: No data

available. Reproductive Effects: No data available. Neurotoxicity: No data available. Mutagenicity: No data available. Other Studies: The toxicological properties have not been fully investigated.

Section 12: Ecological Information – NA

Section 13: Disposal Considerations RCRA P-Series: None listed. RCRA U-Series: None listed.

Section 14: Transport Information US DOT IATA RID/ADR IMO Canada TDG Shipping Name: No information available. No information available. Hazard Class: UN Number: Packing Group:

Section 15: Other Regulatory Information US FEDERAL: TSCA: CAS# 5306-85-4 is not listed on the TSCA inventory. It is for research and development use only. Health & Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule. Section 12b: None of the chemicals are listed under TSCA Section 12b. TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA. SARA: CERCLA Hazardous Substances and corresponding RQs: None of the chemicals in this material have an RQ. SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ. Section 313: No chemicals are reportable under Section 313. Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters. Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA. OSHA: None of the chemicals in this product are considered highly hazardous by OSHA. STATE: CAS# 5306-85-4 is not present on state lists from CA, PA, MN, MA, FL, or NJ. California No Significant Risk Level: None of the chemicals in this product are listed. European/International Regulations: European Labeling in Accordance with EC Directives: Hazard Symbols: Not available. Risk Phrases: p. 5 Safety Phrases: S 24/25 Avoid contact with skin and eyes. WGK (Water Danger/Protection): CAS# 5306-85-4: 1 Canada - DSL/NDSL: None of the chemicals in this product are listed on the DSL or NDSL list. Canada - WHMIS: WHMIS: Not available. Canadian Ingredient Disclosure List: Exposure Limits:

Section 16: Other Information The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.