



CHEMSYNTH CORPORATION

(Exporter of chemical Raw materials)

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SAFETY DATA SHEET

1. Identification

Product Name Diethyl Phthalate

Synonyms Ethyl phthalate

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Signal Word

Danger

Hazard Statements

Harmful if swallowed

Harmful in contact with skin

Harmful if inhaled

Causes severe skin burns and eye damage

Causes serious eye damage

May cause cancer

May cause genetic defects

Precautionary Statements Prevention

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Response

IF exposed or concerned: Get medical attention/advice

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Immediately call a POISON CENTER or doctor/physician

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Ingestion

Rinse mouth

Do NOT induce vomiting

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

Component CAS-No Weight %

Diethyl sulfate 64-67-5 >95

4. First-aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point 104 °C / 219.2 °F

Method - No information available

Autoignition Temperature 436 °C / 816.8 °F

Explosion Limits

Upper No data available

Lower 4.1%

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂) Sulfur oxides Thermal decomposition can lead to release of irritating gases and vapors

6. Accidental release measures

Personal Precautions Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Ensure adequate ventilation.

Environmental Precautions Should not be released into the environment. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

Methods for Containment and Clean Up

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

7. Handling and storage

Handling Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Wear personal protective equipment. Do not ingest.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

Diethyl sulfate

Health 3

Flammability 1

Instability 0

9. Physical and chemical properties

Physical State Liquid

Appearance Colorless

Odor mint-like

Odor Threshold No information available

pH No information available

Melting Point/Range -24 °C / -11.2 °F

Boiling Point/Range 208 °C / 406.4 °F

Flash Point 104 °C / 219.2 °F

Evaporation Rate No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits**Upper** No data available**Lower** 4.1%**Vapor Pressure** 0.19 mbar @ 20 °C**Vapor Density** 5.3 (Air = 1.0)**Relative Density** 1.180**Solubility** No information available**Partition coefficient; n-octanol/water** No data available**Autoignition Temperature** 436 °C / 816.8 °F**Decomposition Temperature** 208 °C**Viscosity** 1.79 cP at 20 °C**Molecular Formula** C4 H10 O4 S**Molecular Weight** 154.18

10. Stability and reactivity

Reactive Hazard None known, based on information available**Stability** Moisture sensitive.**Conditions to Avoid** Incompatible products. Excess heat. Temperatures above 100°C.**Incompatible Materials** Strong oxidizing agents, Strong bases, Strong acids
Tightly fitting safety goggles. Face-shield.**Skin and body protection** Long sleeved clothing.**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.**Personal Protective Equipment****Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.**Diethyl sulfate****Eye/face Protection**

11. Toxicological information

Acute Toxicity**Product Information****Component Information****Component LD50 Oral LD50 Dermal LC50 Inhalation**

Diethyl sulfate 350 mg/kg (Rat) 880 mg/kg (Rat)

600 µL/kg (Rabbit) 600 mg/kg (Rabbit) 250 ppm (Rat) 4 h

Component CAS-No

Diethyl sulfate 64-67-5

Teratogenicity No information available.**STOT - single exposure** None known**STOT - repeated exposure** None known**Aspiration hazard** No information available**Symptoms / effects,both acute and delayed**

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

Endocrine Disruptor Information No information available**Other Adverse Effects** See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Do not empty into drains. Contains a substance which is: Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment. Reacts with water so no ecotoxicity data for the substance is available.

Persistence and Degradability Persistence is unlikely based on information available.**Bioaccumulation/ Accumulation** No information available.**Mobility** . Is not likely mobile in the environment.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

UN-No UN1594

Proper Shipping Name DIETHYL SULFATE

Hazard Class 6.1

Packing Group II

IMDG/IMO

UN-No 1594

Proper Shipping Name DIETHYL SULPHATE

Hazard Class 6.1

Packing Group II

15. Regulatory information

U.S. Federal Regulations

TSCA 12(b) Not applicable

Component CAS-No Weight % SARA 313 - Threshold Values %

Diethyl sulfate 64-67-5 >95 0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes

Chronic Health Hazard Yes

Fire Hazard No

Sudden Release of Pressure Hazard No

Reactive Hazard No

Clean Water Act Not applicable

16. Other information

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.