

**MATERIAL SAFETY DATA SHEET**

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**PRODUCT: DIETHYL PHTHALATE**

**PRODUCT NAME:** Diethyl Phthalate DEP  
**OTHER NAMES:** Diethyl benzene-1,2-dicarboxylate  
Phthalic acid ethyl ester

**UN NUMBER:** None assigned **DANGEROUS GOODS**  
**HAZCHEM CODE:** None assigned **CLASS & SUB RISK:** Not classified  
**PACKAGING GROUP:** None assigned **POISONS SCHEDULE:** Not scheduled  
**USES:** Plasticiser for cellulose esters and acetate, acetobutyrate and nitrocellulose polymers

**PHYSICAL DESCRIPTION/PROPERTIES**

**APPEARANCE:** Clear, colourless liquid  
**FLASHPOINT (°C):** >140°C (ISO 2719)  
**BOILING POINT (at 1013mbar):** 298°C  
**CRYSTALLIZATION POINT:** -4°C approx. (ISO 1392)  
**FLAMMABILITY LIMITS (%):** Not available  
**VISCOSITY:** 12mNs/m<sup>2</sup> at 20°C (ISO 3104)  
**SOLUBILITY IN WATER:** negligible  
**DENSITY:** 1.122g/ml at 20°C (ISO 758)

**OTHER PROPERTIES:** Molecular weight 222.3

**INGREDIENTS:**

CHEMICAL ENTITY	CAS No.	PROPORTION
Diethyl phthalate	84-66-2	99%

**1. HEALTH HAZARD INFORMATION****HEALTH EFFECTS**

**Swallowed:** Swallowing may cause gastric irritation. Seek medical advice if the material has been ingested and the victim is unwell.

**Eyes:** Liquid or mist may cause eye irritation. Seek medical advice in the event of persistent irritation or redness.

**Skin:** Material may cause defatting of the skin.

**Inhaled:** Prolonged inhalation of vapour may cause irritation of the upper airways and slight narcosis.

**Other hazards:**

**MATERIAL SAFETY DATA SHEET****PRODUCT: Diethyl Phthalate****2. FIRST AID MEASURES:**

**Swallowed:** Rinse mouth with water. Give water to drink. If a large quantity has been ingested, or victim feels unwell obtain immediate medical attention.

**Eyes:** Flush liberally with water for at least 15 minutes. Seek medical advice in the event of persistent irritation or redness.

**Skin**

**contact:** Remove contaminated clothing. Wash with soap and water.

**Inhaled:** Remove to fresh air.

**First aid**

**facilities:** Eye bath recommended

**Advice to**

**doctor:** Treat symptomatically.

**3. PRECAUTIONS FOR USE**

**Exposure standards :** 5mg/m<sup>3</sup> (TLV-TWA) - ACGIH 1991-92

**Engineering controls:** Mechanically ventilate enclosed areas to control airborne levels below recommended exposure levels.

**Personal protection:** Eyes: Safety glasses  
Hands/skin: Gloves (eg. neoprene recommended)

**Flammability:** Flash point >140°C (ISO 2719) Combustible liquid.

**4. SAFE HANDLING INFORMATION****Handling, Storage**

**& transport:** Store in closed containers in a dry and cool place. Protect from freezing (solidifies at around 4°C). DEP has no corrosive effect on metals and may be stored in mild steel or aluminium containers. Not classified as dangerous goods under transport regulations. Handling of bulk quantities must be carried out in a bunded area.

**Stability & Reactivity:** Chemically stable combustible liquid.  
Materials to avoid:- Strong oxidising agents.

**Spills & disposal:** Disposal should be carried out in accordance with national and local regulations eg. in an approved incinerator. Consult local authorities for detailed advice. If correctly incinerated this material will decompose to carbon dioxide and water.

Spills: All spillages should be cleared up quickly by containing/absorbing with sand or soil. Do not allow the material to enter surface water drains. If this should occur inform the local authorities immediately. Collect the material in a closed container or salvage tank and remove to a safe place for disposal by burning. Flush contaminated area with plenty of water. Contact local authorities for local regulations on disposal.

**Fire/Explosion**

**Hazard:** Flash point >140°C (ISO 2719) Combustible liquid.  
Hot vapour and combustion products may be harmful.

**MATERIAL SAFETY DATA SHEET****PRODUCT: Diethyl Phthalate****Fire Fighting****Measures:**

Extinguishing media: Carbon dioxide, dry chemical, foam, or water spray.

Protective equipment: Wear self contained breathing apparatus in a large fire.

Special precautions: Prevent contaminated extinguishing water entering drains, sewers or rivers.

**5. OTHER INFORMATION****Toxicological Information:****Toxicity:** LD<sub>50</sub> oral, rat: 9,000mg/kg**Ecological****Information:** Slightly toxic to fish: 96h LC<sub>50</sub>: 10-100mg/l**REGULATORY INFORMATION:****This product is not subject to EC Directive 67/548 or amendments.**

CAS nr 84-66-2

**CONTACT POINT:****EMERGENCY No. 0419 341 095 any time**

**DISCLAIMER:** The information given in this data sheet is based on data supplied by the manufacturer and is, to the best of our knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use are beyond our control. The information and recommendations offered are for the user's consideration and it is the user's responsibility to satisfy themselves that they are suitable and complete for this particular purpose. We recommend that the safety and handling information presented in this data sheet be passed on, in an appropriate format, to your customers and handlers.