

Diethyl Phthalate

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Diethyl Phthalate
CAS Number: 84-66-2
EC Number: 201-550-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use: Laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company name: East Harbour Group Ltd
20 Clough Road, Severalls Industrial Park
Colchester, Essex, CO4 9QS
United Kingdom

Telephone: +44 (0) 333 242 0100
Email: info@eastharbourgroup.com

1.4 Emergency telephone number

Emergency telephone: 0800 246 1274

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Section 3: Composition/information on ingredients

3.2 Mixtures

CAS #	Content (W/W)	Ingredients
84-66-2	/	Diethyl Phthalate

Chemical name: Diethyl Phthalate

Common name / synonyms: DEP

Section 4: First aid measures

4.1 Description of first aid measures

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No information available

Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

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Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Keep in suitable, closed containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling

No information available.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class(TRGS510): Combustible liquids not in Storage Class3.

Section 8: Exposure controls/personal protection

8.1 Control parameters

No information available.

8.2 Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of workday.

8.3 Personal protective equipment

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection: impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Respiratory protection: Respiratory protection not required. For nuisance exposures use type OV/AG(US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH(US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Light Yellow
Physical State	Liquid
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-3 C – lit
Boiling Point/Range	298-299 C – lit
Flash Point	156.0 C – closed cup
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Explosion Limits	No information available
Vapor Pressure	28 hPa at 25 C
Vapor Density	7.7 – (Air = 1.0)
Specific Gravity / Density	No information available
Bulk Density	No information available
Water Solubility	No information available
Solubility in other solvents	No information available
Partition Coefficient	log Pow: 2.2 at 41 C
Auto-ignition temperature	457.0 C
Decomposition temperature	No information available

Section 10: Stability and Reactivity

10.1 Reactivity	No information available
10.2 Chemical Stability	Stable under recommended storage conditions
10.3 Possibility of hazardous reactions	No information available
10.4 Conditions to avoid	No information available
10.5 Incompatible materials	Oxidising agents, acids
10.6 Hazardous decomposition products	Under fire conditions – carbon oxides

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Section 11: Toxicological Information

Product Information

11.1 Toxicological effects:

LD50 Oral – Rat – 8,600 mg/kg (Diethyl phthalate)

Remarks: Behavioural: Somnolence (general depressed activity)

LC50 Inhalation – Rat – 6h - > 4,640 mg/m³ (Diethyl phthalate)

Skin corrosion/irritation

Skin – Rabbit (Diethyl phthalate)

Result: No skin irritation – 24h

Serious eye damage/eye irritation

Eyes – Rabbit (Diethyl phthalate)

Result: Moderate eye irritation

Respiratory or skin sensitisation

Mouse (Diethyl phthalate)

Result: Did not cause sensitisation on laboratory animals
(OECD Test Guideline 429)

Germ cell mutagenicity

Mouse (Diethyl phthalate)

lymphocyte

Result: negative

Ames test (Diethyl phthalate)

S. typhimurium

Result: negative

Carcinogenicity

This product is or contains a component that is not classifiable as to its classification (Diethyl phthalate)

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Specific target organ toxicity – single exposure

No information available (Diethyl phthalate)

Specific target organ toxicity – repeated exposure

No information available

Aspiration hazard

No information available (Diethyl phthalate)

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Section 12: Ecological Information

12.1 Toxicity

Ecotoxicity effects

Toxicity to fish: static test LC50 – *Oncorhynchus mykiss* (rainbow trout) – 12 mg/l – 96h (Diethyl phthalate)

Toxicity to daphnia and other aquatic invertebrates: static test LC50 – *Daphnia magna* (Water flea) – 90 mg/l – 48h (Diethyl phthalate)

Toxicity to algae: static test EC50 – *Desmodesmus subspicatus* (*Scenedesmus subspicatus*) – 23 mg/l – 72h (Diethyl phthalate) (OECD Test Guideline 201)

Persistence and degradability

Biodegradability: aerobic – Exposure time 28 d (Diethyl phthalate)

Result: 94.6% - readily biodegradable

Bioaccumulative potential

Bioaccumulation: *Lepomis macrochirus* (Bluegill) – 21 d

-0.00943 mg/l (Diethyl phthalate)

Bioconcentration factor (BCF): 117

Mobility in soil

No information available

Other adverse effects:

Harmful to aquatic life

Section 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal of substance:

Offer surplus and non-recyclable solutions to a licensed disposal company.

Container disposal:

Dispose of as unused product.

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Section 14: Transport Information

UN number

ADR/RID: -

IMDG: -

IATA: -

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard classes:

ADR/RID: -

IMDG: -

IATA: -

Packaging group:

ADR/RID: -

IMDG: -

IATA: -

Environmental hazards

ADR/RID: no

IMDG: Marine pollutant: no

IATA: no

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

Chemical safety assessment: for this product a chemical safety assessment was not carried out