

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier:**

Substance name: Bis(2-propylheptyl) phthalate

Trade Names/Synonyms:

Bis(2-propylheptyl)phthalate, 1,2-Bis(2-propylheptyl) Ester, 1,2-Benzenedicarboxylic acid, **DPHP**

EC No: 258-469-4

CAS No: 53306-54-0

1.2 Relevant identified uses of the substance or mixture and uses advised against:**Identified uses:** Recommended Use* for industrial use only .

Before using the product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Everchem Specialty Chemicals, does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein for the product itself

1.3 Details of the supplier of the safety data sheet:

Manufacturer/supplier : Everchem Specialty Chemicals

Address/P.O.Box : 1400 N. Providence Road, Ste 302,

Media, PA 19063, USA

Telephone number : (484) 234-5030

Fax number: (484) 234-5037

National contact : (484) 234-5030

1.4 For Chemical Emergency - Spill, Leak, Fire, Exposure or Accident**Call CHEMTREC Day or Night USA + Canada = 1-800-424-9300 / 703-527-3887****SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture:****2.1.1 Classification according to Regulation (EC) No 1272/2008:** Substance is not classified as dangerous according to Regulation (EC) No 1272/2008.**2.1.2 Classification according to Directive 67/548/EEC:** Substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label elements:**Labelling according to Regulation (EC) No 1272/2008:**

No labelling applicable.

2.3 Other hazards: The substance does not meet the criteria for PBT or vPvB substance.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances:**

Product identifier type in accordance with Article 18(2) of Regulation (EC) No 1272/2008	Identifier number			

3.2 Mixtures: Not relevant.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures:**

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Skin contact: Wash with soap and water. Get medical attention if symptoms occur.

Eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

Ingestion: Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed: No data available.

4.3 Indication of any immediate medical attention and special treatment needed: No data available.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media:**

Suitable extinguishing media: Water spray, dry chemical, carbon dioxide, foam.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: No data available.

5.2 Special hazards arising from the substance or mixture: Material may accumulate a static charge which could act as an ignition source. Hazardous Combustion Products: carbon dioxide, carbon monoxide.

5.3 Advice for firefighters: Wear self-contained breathing apparatus and protective clothing.

		Identification name	Weight % content (or range)	EC Number
CAS number	53306-54-0	Bis(2-PropylHeptyl) phthalate	100%	258-469-4

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Avoid inhalation and contact with skin, eyes and clothing. Wear appropriate personal protective equipment as specified in Section 8. Ensure adequate ventilation.

For emergency responders: No data available.

6.2 Environmental precautions: Avoid dispersal of spilled material and contact with soil, ground and surface water, drains and sewers.

6.3 Methods and material for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. For Large Spills: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

6.4 Reference to other sections: For more information on exposure controls/personal protection, please check section 8. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling: No special precautionary health measures should be needed under anticipated conditions of use.

7.2 Conditions for safe storage, including any incompatibilities: Keep container closed. Keep from contact with oxidizing materials.

7.3 Specific end use(s): See section 1.2 and 16.3 for detailed information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances; such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc. Recommended Decontamination Facilities: eye bath, washing facilities

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

When processing in open systems with aerosol formation wear suitable respiratory protection to avoid inhalation of aerosol particles. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

Wear suitable gloves tested EN374. Neoprene, NBR(Nitrile rubber)

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation of mists.

Avoid contact with the skin, eyes and clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:	colorless liquid
Odour:	odorless
Odour threshold:	no data available
pH:	no data available
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	251~254°C (7 mbar)
Flash point:	236°C
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or explosive limits:	no data available
Vapour pressure:	0.00001 atm (at 20°C)
Vapour density:	no data available
Relative density:	0.9624 g/cm ³ (density at 20°C)
Solubility(ies):	water solubility: < 0.1 ug/L
Partition coefficient: n-octanol/water:	Log Pow = 10.6~10.8 (25°C)
Auto-ignition temperature:	345°C
Decomposition temperature:	no data available
Viscosity:	115~130 mPa s (dynamic) (at 20°C)
Explosive properties:	no explosiveness potential (no functional groups present with explosive properties per Annex VII 7.11)
Oxidising properties:	none (the material is incapable of reacting exothermically with combustibles)

Other information: No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Stable under normal conditions

10.2 Chemical stability: Stable under normal conditions

10.3 Possibility of hazardous reactions: Hazardous Polymerization: Will not occur.

10.4 Conditions to avoid: keep away from open flames, hot surfaces and sources ignition

10.5 Compatible materials: Material reacts with strong oxidizing agents.

10.6 Hazardous decomposition products: No hazardous decomposition products under suitable and usage conditions as prescribed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity/Effects

Acute toxicity:

Assessment of acute toxicity: Virtually nontoxic after a single ingestion.

Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Acute toxicity :Oral

Type of value: LD50

Species: rat (male/female)

Value: > 5,000 mg/kg (other)

Acute toxicity:Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 20.5 mg/l (other)

Exposure time: 1 h

An aerosol was tested.

Acute toxicity: dermal

Type of value: LD50

Species: rabbit (male/female)

Value: > 2,000 mg/kg (other)

Skin corrosion/irritation:

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Animal data

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

Acute toxicity: eye

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

Sensitization:

Assessment of sensitization: The chemical structure does not suggest a sensitizing effect.

Human data

Method: (Q)SAR Model

The product has not been tested. The statement has been derived from obstances/products of a similar structure or composition

Results: not sensitising

Aspiration Hazard:

No aspiration hazard expected.

Chronic Toxicity /Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Inhalation of high aerosol concentrations may cause respiratory tract irritation and pulmonary inflammation. Repeated exposure to high doses of substance causes reversible liver changes in rodents. According to present knowledge, these effects do not occur in man

Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria
No mutagenic effect was found in various tests with mammalian cell culture.
and mammals

Carcinogenicity

Assessment of carcinogenicity: In long-term studies in rodents exposed to high doses, a tumorigenic effect was found; however, these results are thought to be due to a rodent-specific liver effect that is not relevant to humans. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition

Reproductive toxicity:

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect

Teratogenicity

Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:

Assesment of aquatic toxicity

There is a high probability that the product is not acutely harmful to aquatic organisms. No toxic effects occur within the range of solubility. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations

Toxicity to fish

LC50 (96 h) > 10,000 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, static)

Tested above maximum solubility. The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates

EC50 (48 h) > 100 mg/l, Daphnia magna (Directive 79/831/EEC, static)

The product has low solubility in the test medium. An eluate has been tested. The details of the toxic effect relate to the nominal concentration.

Aquatic plants

EC50 (72 h) > 100 mg/l (growth rate), Scenedesmus subspicatus (Directive 88/302/EEC, part C, p.89, static)

The product has low solubility in the test medium. An eluate has been tested. The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to fish

Study scientifically not justified.

Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) > 1 mg/l, Daphnia magna (OECD Guideline 202, part 2, semistatic)

The product has low solubility in the test medium. An aqueous dispersion has been tested. The details of the toxic effect relate to the nominal concentration.

Assessment of terrestrial toxicity

Study scientifically not justified.

12.2 Microorganisms/Effect on activated sludge

Toxicity to microorganisms

DIN EN ISO 8192-OECD 209-88/302/EEC, P. C aerobic activated sludge, domestic/EC20 (180 min): > 1,000 mg/l

The details of the toxic effect relate to the nominal concentration.

12.3 Persistence and degradability

Assessment biodegradation and elimination (H2O)

Readily biodegradable (according to OECD criteria).

Elimination information

80 - 90 % CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge, domestic)

12.4 Bioaccumulative potential

Assessment bioaccumulation potential

Does not significantly accumulate in organisms.

Bioaccumulation potential

Bioconcentration factor: < 14.4 (56 d), Cyprinus carpio (OECD Guideline 305 C)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.)

12.5 Mobility in soil

Assessment transport between environmental compartments

The substance will slowly evaporate into the atmosphere from the water surface.
Adsorption to solid soil phase is expected.

12.6 Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate.

13.2 Container disposal: Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number: Not applicable.

14.2 UN proper shipping name: Not applicable.

14.3 Transport hazard class(es): Not applicable.

14.4 Packing group: Not applicable.

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user: Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not applicable.

14.8 DOT: Not Regulated

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA(US Toxic Substances Control Act) : This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

IECSC(Inventory of Existing Chemical Substances in China) : This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

DSL(Canadian Domestic Substances List): This product is listed on the DSL inventory. Any impurities present in this product are exempt from listing.

REACH: This product is listed on the REACH

AICS(Australian Inventory of Chemical Substances): This product is listed on the AICS.

EINECS(Annex to Official Journal of the European Communities) : This product is listed on the EINECS.

ECL(Korean Existing Chemicals List) : This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

PICCS(Philippines Inventory of Chemicals and Chemical substances) : This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

15.2 Chemical safety assessment: A chemical safety assessment has been carried out for this substance.

SECTION 16: OTHER INFORMATION

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take the mentioned precautionary measures and to ensure that this information is complete and sufficient for the use of this product.

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