



Michael Ballance Plastics Limited

SPECIALISTS IN PLASTICS & CHEMICALS

Material Safety Data Sheet

MONSOL DPHP

1. Product Identification

Product Codes: MONSOL DPHP

Use: Chemical

Company Identification

Supplier: Michael Ballance Plastics Limited, "Office Afloat", Barton Marina, Barton under Needwood, Burton on Trent, Staffordshire, DE13 8DZ, UK

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2. Hazards Identification

There is no Hazard Identification data for this product.

3. Composition/Information on Ingredients

Chemical nature: bis (2-propylheptyl) phthalate

CAS Number: 53306-54-0

EC-Number: 258-469-4

4. First Aid Measures

General advice: Immediately remove contaminated clothing.

Inhalation: Remove the patient to fresh air. If patient has any difficulty breathing seek medical attention.

Ingestion: Rinse mouth and give the patient lots of water to drink and get medical advice.

Skin Contact: Immediately flush skin with plenty of soap and water. Remove any contaminated clothing and shoes and wash them before reuse. If irritation develops seek medical attention.

Eye Contact: Immediately flush eyes with plenty of water, keeping the eyelids open. Seek medical attention if irritation persists.

Note to Doctor: Treatment: Treat according to symptoms (decontamination, vital functions). There is no known specific antidote.

5. Fire Fighting Measures

Fire Extinguishing Media: Carbon dioxide, dry extinguishing media water or foam.

Special protective equipment: Wear a self-contained breathing apparatus.

Further information: Dispose of any fire debris and any contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately and do not allow this material to reach the sewage or water systems.

6. Accidental Release Measures

Personal precautions: Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions: Do not empty this material into the drains.

Methods for cleaning up or taking up:

For large amounts: Pump off the product.

For residues: Pick up with suitable absorbent materials (e.g. sand, sawdust or a general-purpose binder). Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion: Prevent electrostatic charge – sources of ignition should be kept well clear – fire extinguishers should be kept nearby. When storing this material containers should be stored tightly sealed in a dry place.

8. Exposure Controls/Personal Protection

Personal protective equipment:

Respiratory protection: Wear respiratory protection if ventilation is inadequate. Use a Gas filter EN141, Type A for gases and vapours of organic compounds, (boiling point >65°C).

Hand protection: Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (**Recommended:** Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. Nitrile rubber (0.4mm), chloroprene rubber (0.5mm), polyvinylchloride (0.7mm) and other.

Supplier's directions for use should be observed because of great diversity of types.

Supplementary note: These specifications are based on our own tests, literature data and information. They are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical- protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Eye protection: Safety glasses with side-shields (frame goggles) (EN 166)

Body protection: Light protective clothing

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form: Liquid

Colour: Colourless

Odour: Faint odour

pH value: approx.6 (25 °C)

Pour point: -48 °C (DIN/ISO 3016)

Boiling range: 251 - 254 °C (7 mbar)

Flash point: 236 °C (DIN/EN 22719; ISO 2719)

Ignition temperature: 345 °C (DIN 51794)

Vapour pressure: < 0.0001 mbar (50 °C)

0.0003 mbar (100 °C)

Density: 0.960 - 0.965 g/cm³ (DIN 51757) (20 °C)

Solubility in water: < 0.1 µg/l (25 °C)

Solubility (qualitative) solvent(s): organic solvents soluble

Partitioning coefficient n-octanol/water (log Pow): 10.36(calculated) (25 °C)

Viscosity, dynamic: 115 - 130 mPa.s (20 °C)

10. Stability and reactivity

Hazardous reactions:

This material reacts with strong oxidizing agents.

11. Toxicological information

LD50/oral/rat: > 2,000 mg/kg Literature data

LC50/by inhalation/rat: > 20.5 mg/l / 1 h

An aerosol was tested. Literature data

LD50/dermal/rabbit: > 2,000 mg/kg Literature data

Primary skin irritation/rabbit: non-irritant (OECD Guideline 404)

Primary irritations of the mucous membrane/rabbit: non-irritant (OECD Guideline 405)

Sensitisation/guinea pig: Skin sensitizing effects were not observed in animal studies. Literature data.

12. Ecological information

Eco toxicity

Toxicity to fish: OECD 203; ISO 7346; 84/449/EEC, C.1 static

Brachydanio rerio/LC50 (96 h): > 10,000 mg/l

This was tested above the maximum solubility. The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates: Directive 79/831/EEC

Daphnia magna/EC50 (48 h): > 100 mg/l

The product has low solubility in the test medium. An eluate has been tested. Nominal concentration.

Aquatic plants: Directive 88/302/EEC, part C, p. 89

Scenedesmus subspicatus/EC50 (72 h): > 100 mg/l

The product has low solubility in the test medium. An eluate has been tested. Nominal concentration.

Microorganisms/Effect on activated sludge: DIN 38412 Part 8

Pseudomonas putida/EC50 (16 h): > 8,000 mg/l

The product has low solubility in the test medium. An eluate has been tested. Nominal concentration.

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

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The details of the toxic effect relate to the nominal concentration.

Assessment of aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms.

Mobility

(OECD draft - Adsorp. Coeff.(HPLC method))

log KOC: 6.8

Persistence and degradability

Elimination information

Test method: OECD 301B; ISO 9439; 92/69/EEC, C.4-C, activated sludge, domestic

Method of analysis: CO₂ formation relative to the theoretical value

Degree of elimination: 70 - 80 % (28d)

Evaluation: Biodegradable

Bioaccumulation potential

Calculated Bioconcentration factor: 3.16

Additional information

Other eco toxicological advice: Do not release untreated into natural waters.

13. Disposal considerations

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging: Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport information

Not classified as hazardous under transport regulations (ADR RID ADN RD IMDG/GGV See ICAO/IATA)

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

EC-Number: 258-469-4

Not subject to labelling in accordance with EEC Directives.

16. Other information

Product should be handled, stored, and used in accordance with the generally accepted industrial hygiene.

Disclaimer:

Michael Ballance Plastics Limited provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.