



Material Safety Data Sheet

MONSOL DOTP

1. Product Identification

Product Codes: MONSOL DOTP

Catalogue No: 6422-86-2

Company Identification

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2. Hazards Identification

No specific hazards are known.

3. Composition/Information on Ingredients

Synonyms:

CAS Number: 6422-86-2

Molar mass: 390.57 EC-No: 229-176-9

Molecular formula: C₂₄H₃₈O₄

4. First Aid Measures

Inhalation: Inhalation of this material may cause respiratory tract irritation. However, the toxicological properties of this substance have not been fully investigated.

Ingestion: May cause irritation of the digestive tract. However, the toxicological properties of this substance have not been fully investigated.

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, occasionally lifting the upper and lower eyelids. Seek medical attention if irritation persists.

5. Fire Fighting Measures

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep the fire-exposed containers cool. Water may be ineffective as the material is lighter than water and the fire may be spread by the use of the water. Vapours may be heavier than air and they can spread along the ground and collect in low or confined areas. The containers may explode when heated.

Extinguishing media: Use the most appropriate form to extinguish the fire. In case of a fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

6. Accidental Release Measures

Small spills/leak: Vacuum or sweep up the material and place into a suitable disposal container. Clean up the spills immediately and use the appropriate protective equipment. Avoid generating dusty conditions by providing ventilation.

For Large Spills: Flush spill area with water spray. Prevent the runoff from entering drains, sewers, or water streams.

7. Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash them before reuse. Use with adequate ventilation to minimize the dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container and in a cool, dry, well-ventilated area away from incompatible substances.

8. Exposure Controls/Personal Protection

Exposure effects: The toxicological properties of this material have not been investigated.

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to the conditions. Use process enclosures, local air ventilation, or other engineering controls to maintain airborne levels below the recommended exposure limits.

Respiratory Protection: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever the workplace conditions warrant a respirator's use.

Physical and chemical properties

Form: Liquid

Colour: Colourless

Odour: Slight

Specific Gravity: 0.985 (20 °C)

Vapour Pressure: 1 mm Hg @ 217 °C

Vapour Density: 13.5 (air=1)

Freezing Point: -48 °C

Boiling point: 383 °C

Viscosity: 63 cp @ 25 °C

Solubility in water: 4.0mg 20 °C

Partition coefficient, pKow: 9.67

Flash point: 238 °C (Cleveland open cup)

9. Stability and reactivity

Stability: Stable

Incompatibility: This material reacts with strong oxidizing agents.

Hazardous polymerisation: Will not occur

10. Toxicological information

Oral LD-50 (rat): > 5,000 mg/kg (highest dose tested)

Oral LD-50 (mouse): > 3,200 mg/kg (highest dose tested)

Skin irritation (guinea pig): slight

Eye irritation (rabbit): slight

Skin sensitisation (guinea pig): slight

11. Ecological information

The toxicity data are listed below:

Oxygen demand data:

COD: 2.7 g/g

ThDOB: 2.58 g/g

Acute aquatic effects data:

96h LC-50 (fathead minnow): > 984 mg/l (nominal concentration)

96h LC-50 (ramshorn minnow): > 984 mg/l (nominal concentration)

96h EC-50 (oyster): > 0.624 mg/l (limit of solubility in sea water)

48h EC-50 (daphnid): > 0.0014 mg/l

72h EC-50 (selenastrum capricornutum): NOEC >= 0.86 mg/l

12. Disposal considerations

This material must be disposed of or incinerated in accordance with national or local laws. Since the emptied containers retain product residue, follow the label warnings even after the container is emptied.

13. Transport information

Not subject to transport regulations.

14. Regulatory information

Labelling according to EC Directives

Symbol: R

Phrases: S

Phrases: 16

15. Other information

Regional representation:

This information is give on the authorized Safety Data Sheet for your country.

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.