



**Michael Ballance Plastics Limited**

SPECIALISTS IN PLASTICS & CHEMICALS

# Material Safety Data Sheet

## MONSOL DINP

### 1. Product Identification

**Product name:** MONSOL DINP

### Company Identification

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

**Telephone:** +44 (0) 1283 711512

**Fax:** +44 (0) 1283 711202

### 2. Hazards Identification

There are no specific hazards known

### 3. Composition/Information on Ingredients

#### Synonyms

2, 5- Furanedione

**CAS Number:** 28553-12-0

**Molecular formula:** C<sub>6</sub>H<sub>4</sub> (COOC<sub>9</sub>H<sub>19</sub>)<sub>2</sub>

### 4. First Aid Measures

**General advice:** Take off all contaminated clothing immediately.

**Ingestion:** Seek medical advice immediately.

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

**Eye Contact:** Immediately flush eyes with plenty of water, lifting the upper and lower eyelids occasionally. Seek medical attention if irritation persists.

### 5. Fire Fighting Measures

**Suitable Extinguishing Media:** Spray water, foam, carbon dioxide or dry powder.

### 6. Accidental Release Measures

**Personal precautions:** Use personal protective equipment and avoid contact with the skin and eyes.

**Environmental precautions:** Do not allow this material to enter into the sewage, drainage or water systems. Inform the Environmental Protection department immediately if this material has left the production.

**Methods for cleaning up:** Use mechanically or with an absorbent material. Fill the material into marked and sealable containers. This material is to be disposed of in compliance with existing regulations.

**Suitable binder:** Use a universal absorbent, kieselguhr or oil absorbent.

### 7. Handling and Storage

**Safe handling advice:** If possible, use material transfer/filling, metering and blending plants that are closed. Advice on protection against fire and explosion normal measures of preventive fire protection

**Storage:** Requirements for storage areas and containers. Keep containers tightly closed.

## 8. Exposure Controls/Personal Protection

Components with workplace control parameters

**CAS No:** 28553-12-0

**Control parameters:** 5 mg/m<sup>3</sup>

**Time Weighted Average (TWA):** (EH40 OES)

**Engineering measures:** If possible, use a material transfer/filling, metering and blending plants that are closed.

**Personal protective equipment:**

**Respiratory protection:** In case of dust, vapours or aerosols being formed or if the limit values like TLV are exceeded; use respiratory equipment with a suitable filter (Use filter Type A or wear a self contained respiratory apparatus).

**Hand protection:** Wear suitable protective gloves, e.g. rubber gloves

**Eye protection:** Safety glasses should be worn

**Hygiene measures:** Do not inhale the vapours or aerosols. Avoid contact with the skin and eyes.

## 9. Physical and Chemical Properties

**Form:** Liquid

**Colour:** colourless to yellowish

**Odour:** odourless

**PH value:** (20°C) neutral/aqueous extract

**Viscosity dynamic:** (20°C) 72,00-82,00 mPa.s

**Method:** DIN 53 015

**Melting point:** ca. -54 °C Stock point

**Boiling point:** 270-280 °C (5 hPa)

**Ignition temperature:** ca. 400°C Method: DIN 51 794

**Flash point:** ca. 200°C Method: DIN EN 22 719

**Explosion limits:** no explosion limits, under standard conditions

**Vapour pressure:** (20°C) < 0.01 hPa

**Density:** (20°C) 0.972-0.977 g/cm<sup>3</sup>

**Partition coefficient** (n-octanol/water)

**Log pow:** 9.98 (calculated)

**Related to substance:** di-isononyl phthalate

## 10. Stability and Reactivity

**Hazardous decomposition products:** No

**Thermal decomposition:** > 280°C

**Hazardous reactions:** No

## 11. Toxicological Information

**Acute oral toxicity:** LD<sub>50</sub> (rat) :> 10.000 mg/kg. Own study

**Skin irritation:** Not irritating **Method:** OECD Test Guideline 404. Own study

**Eye irritation:** Not irritating **Method:** OECD Test Guideline 405. Own study

**Toxicity to reproduction:** No evidence of reproduction-toxic properties

## 12. Ecological information

Elimination information (persistence and degradability)

**Biodegradability:** readily biodegradable

**81% Method:** (CO<sub>2</sub>; modif. Sturm test-92/69/EEC part C.4-C)

Behaviour in environmental compartments

**Eco toxicity effects:**

**Toxicity to fish:** LC0 Brachydanio rerio:  $\geq 100,00\text{mg/l}$  / 96 h

**Method:** EC 92/69 fish, acute toxicity test.

This has been tested in the presence of emulsifiers. The range of water solubility is not toxic under test conditions.

**Toxicity to daphnia:** Daphnia magna.

This test was in the presence of emulsifiers in the range of water solubility not toxic under test conditions.

**Toxicity to algae:** EC50 scenedesmus subspicatus:  $> 100,00\text{mg/l}$  / 72h

**Method:** EC 92/69 cell multiplication inhibition test was tested in the presence of emulsifiers

**NOEC scenedesmus subspicatus:**  $\geq 100,00\text{mg/l}$  / 72h

**Method:** EC 92/69 cell multiplication inhibition test was tested in the presence of emulsifiers

**Toxicity in terrestrial plants:** EC50 Lepidium sativum:  $\geq 1.000\text{mg/l}$

**Method:** OECD 208

EC50 Triticum aestivum:  $\geq 1.000\text{mg/l}$

**Method:** OECD 208

EC50 Lactuca sativa (lettuce):  $\geq 1.000\text{mg/l}$

**Method:** OECD 208

### 13. Disposal Considerations

**Product:** Dispose of the waste in an incineration plant, respecting local regulations.

This product may not have an assigned waste code as it admits. There must be agreement on the waste disposal between the regional authority and the company.

### 14. Transport Information:

Not classified as dangerous in the meaning of transport regulations.

### 15. Regulatory Information

Labelling according to EEC Directives

**Statutory basis/list:** Not subject to labelling provision.

National legislation

### 16. Other Information

**Reason for alteration:** Change/addition in the chapter 14.

**Regional representation:** This information is given on the authorised 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.**