

Material Safety data sheet

Di-Isononyl Phthalate(DINP)

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No.:

Product name: Di-isononyl phthalate (DINP)

Manufacturer/supplier identification

Company: TENOIT CO.,LTD.

Address: Rm. 4, 5FL. , No. 109, Sec 6, Mingquan E. Rd. Taipei, Taiwan

Emergency telephone No.:+886 (02) 8792-2185

2. Composition / information on ingredients

Synonyms

2,5-Furandione

CAS-No. : 28553-12-0

Molar mass: 419

Molecular formula: $C_6H_4(COOC_9H_{19})_2$

3. Hazards identification

No specific hazards are known.

4. First aid measures

General advice

Take off all contaminated clothing immediately.

Skin contact

Wash off with plenty of water and soap immediately, seek medical advice if necessary.

Eye contact

Rinse with plenty of water immediately and seek medical advice.

Ingestion

Seek medical advice immediately.

5. Fire-fighting measures

Suitable extinguishing media:

Spray water, foam, carbon dioxide, dry powder

6. Accidental release measures

Personal precautions

Use personal protective equipment.

Avoid contact with skin and eyes.

Environmental precautions

Do not allow to entrance in sewage water, drainage systems, stretches of water, soil.

Inform the company environmental protection department immediately if this product has left the production area.

Methods for cleaning up

Take up mechanically or with an absorbent material.

Fill into marked, sealable containers.

To be disposed of in compliance with existing regulations.

Suitable binder: universal absorbent, kieselguhr, oil absorbent.

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7. Handling and storage

Handling:

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 5mg/m³ Time Weighted Average(TWA):(EH400ES)

Parameters

Engineering measures

If possible, use material transfer/filling, metering and blending plants that are closed.

Personal protective equipment:

Respiratory protection:

In case of dusts/vapors/aerosols being formed or if the limit values like TLV are exceeded:

Use respiratory equipment with suitable filter(filter type A or wear a self contained)respiratory apparatus.

Hand protection:

Suitable protective gloves, e.g. rubber gloves

Eye protection:

Safety glasses

Hygiene measures

Do not inhale vapors/aerosols.

Avoid contact with skin and eyes.

9. Physical and chemical properties

Form: liquid

Color: colorless to yellowish

Odor: odorless

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 (5hPa)

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/cm³

Partition coefficient(n-octanol/water)

Log pow: 9.98(calculated)

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|---|---|
| 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 | LD50(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 ₂ ;modif. Sturm test-92/69/EEC part C.4-C |
| Behaviour in environmental compartments | |
| Ecotoxicity effects: | |
| Toxicity to fish | LC0 Brachydanio rerio: ≥ 10,000mg/l /96 h Method: EC 92/69 fish, acute toxicity test tested in the presence of emulsifiers In the range of water solubility not toxic under test conditions. |
| Toxicity to daphnia | Daphnia magna Test in the presence of emulsifiers in the range of water solubility not toxic under test conditions. |
| Toxicity to algae | EC50 scenedesmus subspicatus: > 10,000mg/l /72 h Method: EC 92/69 cell multiplication inhibition test tested in the presence of emulsifiers NOEC scenedesmus subspicatus: ≥ 10,000 mg/l /72 h Method: EC 92/69 cell multiplication inhibition test tested in the presence of emulsifiers |
| Toxicity in terrestrial plants | EC50 Lepidium sativum: ≥ 1,000mg/l Method: OECD 208 EC50 Triticum aestivum: ≥ 1,000mg/l Method: OECD 208 EC50 Lactuca sativa(lettuce): ≥ 1,000mg/l Method: OECD 208 |

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13. Disposal considerations

Product:

With respect to local regulations, e.g. dispose of to waste incineration plant.
Waste code may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose.
In agreement with the waste code must be determined regional waste disposal authority or company.

14. Transport information

Transport/further 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 labeling provision.
National legislation

16. Other information

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.