

Material Safety Data Sheet

According to 91/155 EEC(2001/58 EC)

Printing date: 19.12.2006

Reviewed on: 19.12.2006

1 Identification of substance:

- **Product details:**
- **Trade name:** Diisononylphthalate (DINP)
- **Application of the substance / the preparation** Plasticizer
- **Supplier/Manufacturer:**
 Penpet Petrochemical Trading GmbH
 Merkur-Park
 Sieker Landstrasse 126
 22143 Hamburg
 Germany
 Tel: +49 40 675 799 0
 Fax: +49 40 675 799 99 / 88
- **Information department:** see above
- **Emergency information:** National Poisons Information Centre Tel.: +44 (0)870 6006266

2 Composition/Data on components:

- **Chemical characterization:**
- **CAS No. Description:**
 28553-12-0 di-"isononyl" phthalate
- **Identification number(s):**
- **EINECS Number:** 249-079-5

3 Hazards identification

- **Hazard description:** not applicable
- **Information pertaining to particular dangers for man and environment:**
 According to current European laws and regulations the product is not dangerous or toxic material (based on the available data). No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.
- **Classification system:**
 The classification was made according to the latest editions of the EU-lists, and expanded using company data and specialized literature.

4 First aid measures

- **General information:**
 Immediately remove any clothing soiled by the product.
 If symptoms persist or in case of doubt seek medical advice.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
 Wash with water and soap and rinse with plenty of water.
 If skin irritation continues, consult a doctor.
- **After eye contact:**
 Rinse opened eye for several minutes under running water.
 If symptoms persist consult a doctor.
- **After swallowing:** Immediately consult a physician and show the packing, the label or this safety data sheet.
- **Information for doctor:**
- **The following symptoms may occur:**
 Local irritation symptoms
 After swallowing:
 Gastric or intestinal disorders.

(Contd. on page 2)

Material Safety Data Sheet

According to 91/155 EEC(2001/58 EC)

Printing date: 19.12.2006

Reviewed on: 19.12.2006

Trade name: Diisononylphthalate (DINP)

(Contd. of page 1)

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Dangerous decomposition product see chapter 10: stability and reactivity
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information:**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective clothing.
Ensure adequate ventilation
Keep unprotected persons away.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Avoid contact with eyes and skin.
Avoid inhalation of vapours.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store container tightly sealed at a cool and dry place with sufficient ventilation.
- **Information about storage in one common storage facility:**
Do not store together with alkalies (caustic solutions).
Do not store together with oxidizing and acidic materials.
Store away from foodstuffs.
Store away from feed.
- **Further information about storage conditions:** Store in dry conditions.
- **Storage class** 10 Combustible liquids

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** Mechanically ventilation/exhaustion is strongly recommended.
- **Components with limit values that require monitoring at the workplace:**
Diisononylphthalat
OES Long-term value: 5 mg/m³
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures should be adhered to when handling chemicals.
Immediately remove all soiled and contaminated clothing
Keep away from foodstuffs, beverages and feed.

(Contd. on page 3)

Material Safety Data Sheet

According to 91/155 EEC(2001/58 EC)

Printing date: 19.12.2006

Reviewed on: 19.12.2006

Trade name: Diisononylphthalate (DINP)

(Contd. of page 2)

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

· **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

Short term filter device:

Filter A

· **Protection of hands:**

Chemical resistant gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material:**

The exact break-through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling.

· **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· **General Information**

Form:	Liquid
Colour:	According to product specification
Odour:	Odourless

· **Change in condition:**

Melting point/Melting range: undetermined

Boiling point/Boiling range: undetermined

· **Flash point:** 190°C

· **Ignition temperature:** 420°C

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower: <0.1 Vol %

Upper: 0.17 Vol %

· **Vapour pressure at 219°C:** 2.6 hPa

· **Density at 20°C:** 0.968 g/cm³

· **Solubility in / Miscibility with**

Water at 20°C: < 0.0001 g/l

· **Segregation coefficient (n-octanol/water):** ~ 10 log POW

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.

· **Materials to be avoided:**

Strong oxidants

Strong acids

Alkalis

· **Dangerous reactions:** No dangerous reactions known

(Contd. on page 4)

Material Safety Data Sheet

According to 91/155 EEC(2001/58 EC)

Printing date: 19.12.2006

Reviewed on: 19.12.2006

Trade name: Diisononylphthalate (DINP)

(Contd. of page 3)

 · **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

Diisononylphthalat

 Oral LD₅₀ > 10000 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** No irritating effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is readily biodegradable.
- **Behaviour in environmental systems:**
- **Mobility and bioaccumulation potential:** log P (o/w) >3 - Considerable bioaccumulation is to be expected
- **Ecotoxicological effects:**
- **Aquatic toxicity:**

Diisononylphthalat

 EC₅₀/24h > 500 mg/l (daphnia magna)

 EC₅₀/72h > 100 mg/l (scenedesmus subspicatus)

 LC₅₀/96h > 0.14 mg/l (lepomis macrochirus)

- **General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.

According to appendix 3 of VwVwS dated 17.05.1999 (German regulation)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to instructions of local authorities.
- **European waste catalogue:**
- 07 07 99 wastes not otherwise specified
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** No hazardous good according to the regulation.
- **Maritime transport IMDG:**
- **IMDG Class:** No hazardous good according to the regulation.
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** No hazardous good according to the regulation.

(Contd. on page 5)

Material Safety Data Sheet

According to 91/155 EEC(2001/58 EC)

Printing date: 19.12.2006

Reviewed on: 19.12.2006

Trade name: Diisononylphthalate (DINP)

(Contd. of page 4)

15 Regulations

· Markings according to EC guidelines:

The substance(product)is not subject to classification according to EC-directives and other sources of literature known to us.
Observe the general safety regulations when handling chemicals

· National regulations**· Water hazard class:** Water hazard class 1 (Assessment by list): slightly hazardous for water.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS:

KFT-Chemieservice Marienstr. 3 D-64347 Griesheim
Postfach 1451 D-64345 Griesheim
Tel.: +49-6155-823241 Fax: +49-6155-823246

· Contact: Angelika Torges

— GB —

PenPet - Chemical trading
safe chemical trade worldwide