



## SAFETY DATA SHEET

**Chemical name: DIISONONYL PHTHALATE**

### 1. IDENTIFICATION

#### A. Product name

**DINP (Diisononyl Phthalate: C<sub>26</sub>H<sub>42</sub>O<sub>4</sub>)**

#### B. Recommended use and restriction on use

- General use : Cable, Leather, Wall paper, Glove, Eraser & Etc.
- Restriction on use : Do not use other than recommended use

#### C. Manufacturer information

##### o Manufacturer information

- Company name : VINA Plasticizers Chemical Company, Ltd
- Address : Go Dau IZ, Long Thanh District, Dong Nai Province, Viet Nam
- Telephone number: +84-251-3841241
- Fax number : +84-251-3841230

### 2. HAZARD IDENTIFICATION

#### A. GHS Classification

- Not applicable

#### B. GHS label elements

##### o Hazard symbols

- Not applicable

##### o Signal words

- Not applicable

##### o Hazard statements

- Not applicable

##### o Precautionary statements

#### 1) Prevention

- Not applicable

#### 2) Response

- Not applicable

#### 3) Storage

- Not applicable

#### 4) Disposal

- Not applicable

**C. Other hazards which do not result in classification: (NFPA Classification)**

- **NFPA grade (0 ~ 4 level)**
  - Health: 0, Flammability: 1, Reactivity: 0

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	Trade names and Synonyms	CAS No.	Content (%)
Diisononyl phthalate	1,2-Benzenedicarboxylic acid, di- C8-10-branched alkyl esters, C9- rich	68515-48-0	99.5% min

**4. FIRST AID MEASURES****A. Eye contact**

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.

**B. Skin contact**

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Laundering enough contaminated clothing before reuse.

**C. Inhalation contact**

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.

**D. Ingestion contact**

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.

**E. Delayed and immediate effects and also chronic effects from short and long term exposure**

- Not available

**F. Notes to physician**

- Notify medical personnel of contaminated situations and have them take appropriate protective measure

**5. FIREFIGHTING MEASURES****A. Suitable (Unsuitable) extinguishing media**

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray
- Avoid use of water jet for extinguishing

**B. Specific hazards arising from the chemical**

- Not available

**C. Special protective actions for firefighters**

- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Notify your local fire station and inform the location of the fire and characteristics hazard.
- Using a unattended and water devices in case of large fire and leave alone to burn if you do not imperative.

- Avoid inhalation of materials or combustion by-products.
- Do not access if the tank on fire.
- Keep containers cool with water spray.
- Vapor or gas is burned at distant ignition sources can be spread quickly.

## 6. ACCIDENTAL RELEASE MEASURES

### A. Personal precautions, protective equipment and emergency procedures

- Must work against the wind, let the upwind people to evacuate.
- Do not touch spilled material. Stop leak if you can do it without risk.
- Move container to safe area from the leak area.
- Handling the damaged containers or spilled material after wearing protective equipment.
- Do not direct water at spill or source of leak.

### B. Environmental precautions

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.

### C. Methods and materials for containment and cleaning up

- Large spill: Stay upwind and keep out of low areas. Dike for later disposal.
- Notification to central government, local government. When emissions at least of the standard amount
- Dispose of waste in accordance with local regulation.
- Appropriate container for disposal of spilled material collected.
- Small leak: sand or other non-combustible material, please let use absorption.
- Wipe off the solvent.
- Dike for later disposal.

## 7. HANDLING AND STORAGE

### A. Precautions for safe handling

- Since emptied containers retain product residue(vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
- Get the manual before use.
- Operators should wear antistatic footwear and clothing.
- Do not inhale the steam prolonged or repeated.

### B. Conditions for safe storage, including any incompatibilities

- Check regularly for leaks.
- Do not use damaged containers.
- Do not apply direct heat.
- Do not apply any physical shock to container.
- Keep sealed when not in use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### A. Exposure limits

- o **ACGIH TLV**
- Not available

- **OSHA PEL**

- Not available

- **B. Engineering controls**

- A system of local and/or general exhaust is recommended to keep employee exposures above the Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. The use of local exhaust ventilation is recommended to control emissions near the source.

- **C. Individual protection measures, such as personal protective equipment**

- **Respiratory protection**

- Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
- Respiratory protection is ranked in order from minimum to maximum.
- Consider warning properties before use.
- Any chemical cartridge respirator with organic vapor cartridge(s).
- Any chemical cartridge respirator with a full face piece and organic vapor cartridge(s).
- Any air-purifying respirator with a full face piece and an organic vapor canister.
- For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full face piece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full face piece.

- **Eye protection**

- Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- Provide an emergency eye wash station and quick drench shower in the immediate work area.

- **Hand protection**

- Wear appropriate glove.

- **Skin protection**

- Wear appropriate clothing.

- **Others**

- Not available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance	
- Appearance	Liquid
- Color	Colorless
B. Odor	Almost odourless
C. Odor threshold	Not available
D. pH	7
E. Melting point/Freezing point	-48 °C
F. Initial Boiling Point/Boiling Ranges	252 °C
G. Flash point	201 °C
H. Evaporation rate	Not available
I. Flammability(solid, gas)	Not available
J. Upper/Lower Flammability or explosive limits	Not available
K. Vapour pressure	0.0001 kPa (<0.001 hPa at 38°C)
L. Solubility	(< .1 vol% at 20°C)
M. Vapour density	10 (>10 (Air=1))
N. Specific gravity(Relative density)	0.974 (ca. 0.974g/m3 at 20°C)
O. Partition coefficient of n-octanol/water	Not available
P. Auto ignition temperature	260 °C (ca. 260 °C at 1013 .25 hPa)
Q. Decomposition temperature	Not available

R. Viscosity	Not available
S. Molecular weight	418.6

## 10. STABILITY AND REACTIVITY

### A. Chemical Stability

- This material is stable under recommended storage and handling conditions.

### B. Possibility of hazardous reactions

- Hazardous Polymerization will not occur.

### C. Conditions to avoid

- Avoid contact with incompatible materials and condition.

- Avoid: Accumulation of electrostatic charges, Heating, Flames and hot surfaces

### D. Incompatible materials

- Not available

### E. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

## 11. TOXICOLOGICAL INFORMATION

### A. Information on the likely routes of exposure

#### ○ (Respiratory tracts)

- Not available

#### ○ (Oral)

- Not available

#### ○ (Eye-Skin)

- Not available

### B. Delayed and immediate effects and also chronic effects from short and long term exposure

#### ○ Acute toxicity

\* **Oral - ATE MIX : 2000mg/kg < ATEmix <= 5000mg/kg**

- [Diisononyl phthalate] : LD50 > 9800 mg/kg Rat

- [Diisononyl phthalate] : LD50 = 2550 mg/kg Rat

\* **Dermal - ATE MIX : Not available**

- [Diisononyl phthalate] : LD50 > 3160 mg/kg Rabbit

\* **Inhalation - ATE MIX : Not available**

- [Diisononyl phthalate] : Steam LC50 > 4.4 mg/l Rat

#### ○ Skin corrosion/irritation

- Not available

#### ○ Serious eye damage/irritation

- Not available

#### ○ Respiratory sensitization

- Not available

#### ○ Skin sensitization

- Not available

#### ○ Carcinogenicity

\* **IARC**

- Not available

\* **OSHA**

- Not available

\* **ACGIH**

- Not available

**\* NTP**

- Not available

**\* EU CLP**

- Not available

○ **Germ cell mutagenicity**

- Not available

○ **Reproductive toxicity**

- Not available

○ **STOT-single exposure**

- Not available

○ **STOT-repeated exposure**

- Not available

○ **Aspiration hazard**

- Not available

## 12. ECOLOGICAL INFORMATION

### A. Ecotoxicity

○ **Fish**

- [Diisononyl phthalate]: LC50 0.14 mg/l 96 hr *Lepomis macrochirus* (IUCLID). L(E)C50 is exceeded water solubility(600 ng/L).

○ **Crustaceans**

- [Diisononyl phthalate]: EC50 74 mg/l 48 hr *Daphnia magna* (IUCLID)

- [Diisononyl phthalate]: EC50 0.086 mg/l 48 hr *Daphnia magna* (GLP:yes) (ESIS)

○ **Algae**

- [Diisononyl phthalate]: EC50 2.8 mg/l 96 hr *Selenastrum capricornutum* (GLP:yes) (ESIS)

### B. Persistence and degradability

○ **Persistence**

- [Diisononyl phthalate] : log Kow 8.8-9.7 (ECHA)

○ **Degradability**

- Not available

### C. Bioaccumulative potential

○ **Bioaccumulative potential**

- [Diisononyl phthalate] : BCF 0.46 (IUCLID)

○ **Biodegradation**

- [Diisononyl phthalate]: 81 (%) 28 day (IUCLID)

- [Diisononyl phthalate]: 99 (%) 28 day (type : aerobic) (IUCLID)

### D. Mobility in soil

- Not available

### E. Other adverse effects

- Not available

## 13. DISPOSAL CONSIDERATIONS

### A. Disposal methods

- Since more than two kinds of designed waste is mixed, it is difficult to treat separately, then can be reduction or stabilization by incineration or similar process.

- If water separation is possible, pre-process with Water separation process.

- Dispose by incineration.

- Incinerate the oil by separating the oil and water
- The remainder of the water after separation will be processed in a water pollution prevention facility
- Do incineration or stabilization of the residue after disposal as the method of evaporation and concentration.
- Do incineration of the residue after disposal as the method of agglomeration and precipitation.
- Take care of incinerate or stabilization after treatment, purified by means of Separation • distillation • extraction • filtration • pyrolysis

#### **B. Special precautions for disposal**

- The user of this product must disposal by oneself or entrust to waste disposer or person who other's waste recycle and dispose, person who establish and operate waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

### **14. TRANSPORT INFORMATION**

#### **A. UN No. (IMDG)**

- Not applicable

#### **B. Proper shipping name**

- Not applicable

#### **C. Hazard Class**

- Not applicable

#### **D. IMDG Packing group**

- Not applicable

#### **E. Marine pollutant**

- Not available
- Not applicable

#### **F. Special precautions for user related to transport or transportation measures**

- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- Air transport (IATA): Not subject to LATA regulations.
- EmS FIRE SCHEDULE: Not available
- EmS SPILLAGE SCHEDULE: Not available

### **15. REGULATORY INFORMATION**

#### **A. National and/or international regulatory information**

##### **○ POPs Management Law**

- Not applicable

##### **○ Information of EU Classification**

##### **\* Classification**

- Not applicable

##### **○ U.S. Federal regulations**

##### **\* OSHA PROCESS SAFETY (29CFR1910.119)**

- Not applicable

##### **\* CERCLA Section 103 (40CFR302.4)**

- Not applicable

##### **\* EPCRA Section 302 (40CFR355.30)**

- Not applicable

##### **\* EPCRA Section 304 (40CFR355.40)**

- Not applicable

##### **\* EPCRA Section 313 (40CFR372.65)**

- Not applicable
- **Rotterdam Convention listed ingredients**
- Not applicable
- **Stockholm Convention listed ingredients**
- Not applicable
- **Montreal Protocol listed ingredients**
- Not applicable

## 16. OTHER INFORMATION

### A. Reference

- The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

- This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS, NLM, SIDS, IPCS

### B. Issue date

- 2019-07-30

### C. Revision number and Last date revised

- 2021-11-01

### D. Other

- This SDS is prepared according to the Globally Harmonized System (GHS).