

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the product

Catalogue No.:

Product name : DHIN (Non-Phthalate Plasticizer)

Manufacturer/supplier identification

Company: Petrochemicals 1st Div, Nan Ya Plastics Corporation.Taiwan, R.O.C

Tel: (886)5-6818477~78 ; Fax:(886)5-6812687

Emergency telephone No.: (886)5-6818477~78

2. Hazards identification

The most important hazardous effect

(1) Health hazardous effect: Slightly eye irritation, slightly skin irritation, and slightly breathing irritation.

(2) Environmental effect: It might be accumulated in circumstance.

(3) Physical & chemical hazard:-----

(4) Special hazard: Long time exposure will do harm for breathing and eyes.

Primary symptom: Slightly eye irritation.

Substance hazardous classification: -

3. Composition/information on ingredients

Synonyms: 1,2-Cyclohexanedicarboxylic acid, di-isononyl ester

CAS-No.: 166412-78-8 Europe and Asia

474919-50-0 USA and CANADA

REACH No.: 01-0000017810-74-0002

Content:>99%

4. First aid measures

Aid measures under different routes of exposure

(1) Inhalation: move to fresh air and accept medical attention immediately.

(2) Skin contact: Wash with plenty water and soap. If skin gets inflammation, send patient to hospital for cure.

(3) Eyes contact: Wash affected eyes for at least 15 minutes under running water. Then send patient to oculist for cure immediately.

(4) Swallowed: Rinse mouth and then drink plenty of water. Help patient vomit, and then send patient to hospital for cure immediately.

The most important symptom and hazard effect: Not detected.

Protective equipment for aid people(1)eye: wear chemical safety glasses(2)hand: wear chemical resistant protective gloves to prevent to contact the contaminant.

Note to doctor: Not detected.

5. Fire-fighting measures

Extinguishing media: Water spray, dry chemical, carbon dioxide, foam.

Special hazard when fire-fighting:-----

Special fire-fighting procedures: Wear self-contained breathing apparatus.

Special protective equipment for fire-fighting: Wear self-contained breathing apparatus, protective gloves and clothes.

6. Accidental release measures

Personal precautions: Wear appropriate personal protective equipment.

Environmental precautions: (1)Supply fresh air for the region(2)Extinguish or remove all fire source.

Clean method (1)Stop leak and remove all the fire source in the neighborhood. Wear protective clothes, gloves, glasses when working.

(2)Pick up with appropriate absorbent material. Dispose of absorbed substance according to regulations.

7. Handling and storage

Handling:

(1)After opening containers, product should be used empty as possible. If product isn't run out, seal the containers tightly to prevent from humidity.

(2)Prevent to contact skin and eyes directly, and prevent to breathe the vapor.

(3)Wash hands after working immediately.

Storage:

(1)Containers should be stored in cold, dry, and good air-circulation place. Avoid the sunshine and let containers be away from heat and fire source.

(2)Stored in appropriate and marked containers.

(3)Disused and empty containers should keep tightly sealed too.

(4)Prevent the containers from impulse damage.

(5)Use appropriate, checked storage tanks, storage buildings, and storage rooms.

8. Exposure controls/personal protection

Engineering control: Keep good air circulation. Should use air circulation equipment when working in a closed circumstance or heating.

Control parameters:

(1)1day (eight hour) allowed average concentration/Short time allowed average concentration/The highest allowed concentration: Not detected.

(2)biologic index: Not detected.

Personal Precautionary Measure:

Breathing protection: Wear self-contained breathing apparatus.

Hands protection: Wear chemical-resistant gloves.

Eyes protection: (1)Wear anti-splash eye glasses (2) Don't wear contact-lens.

Skin and body protection: Wear chemical-resistant clothes.

9. Physical and chemical properties

Form :	liquid(25°C, 1atm)
Color :	transparent to slightly color.
Odor :	Sightly irritative order.
pH value	approximate 7
Boiling point range	240-250 °C
Decompose temperature	Not detected.
Flash point :	224 °C (closed cup)
Autoignition temperature	Not detected.
Vapor Pressure :	9.75×10 ⁻⁷ mmHg @25°C
Vapor Density :	Not detected.
Freezing Point :	-
Density	approximate 0.950 g/ml (at 25 °C)
Solubility in water :	0.005 g/100 ml
Viscosity	47 cps (25 °C)

10. Stability and reactivity

Stability: Very stable under normal temperature and pressure.

Possible hazardous reaction under special circumstance: Not detected.

Should avoid circumstance:(1)static electricity 、spark 、flame and other fire source(2)store at very high temperature.

Should avoid substance: Oxidize easily by peroxide and strong oxidizing agent.

Hazardous dissolution: Not detected.

11. Toxicological information

Acute toxicity:

Oral:

LD50/rat:>5,000mg/kg

Dermal:

LD50/rat:>2,000mg/kg

Skin irritation:

Rabbit:non-irritant

Eye irritation:

Rabbit:non-irritant

Regional effect: Not detected.

Sensitization: Not detected.

Chronic toxicity: Not detected.

Special effect: Not detected.

12. Ecological information

Environmental fate and transport

- (1) It might not get accumulated. It will be decomposed in body and be drained.
- (2) Drain into land: It will leak into ground water. Biologic decomposition or vaporized is anticipated.
- (3) Drain into water: biologic decomposition or vaporization drained is anticipated.
- (4) Drain into air: It will react with hydrogen-oxygen free radical and get decomposed.

13. Disposal considerations

Waste disposal of substance:

Must be dumped or incinerated according to local regulations.

Discharge, treatment, or disposal may be subject to national, state, or local laws.

14. Transport information

Land transport: Not classified as a dangerous good under transport regulations.

Sea transport: Not classified as a dangerous good under transport regulations.

Air transport: Not classified as a dangerous good under transport regulations.

15. Regulatory information

Federal Regulations.

SARA hazard categories (EPCRA 311/312): Not hazardous.

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.