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## Material Safety Data Sheet

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**Version 5.0**

**Revision Date: 01/01/2022**

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### 1. Product and company identification

**Product Name :** Dioctyl Maleate / Di (2-ethylhexyl) Maleate

**Company :** Yuanli Chemical Group Co.,Ltd.

**Add:** Zhuliu Chemical Park, Changle County, Weifang City, Shandong Province,China

**Telephone :** +86-536-6777557

**Fax :** +86-536-6777188

**Emergency Phone NO. :** +86-536-6776567

### 2. Composition/information on ingredients

**Formula :** C<sub>20</sub>H<sub>36</sub>O<sub>4</sub>

**Molecular Weight :** 340.5 g/mol

Material	CAS No.	%
Dioctyl Maleate	142-16-5	99.0 min
Water	7732-18-5	1.0 max

#### **Di (2-ethylhexyl) Maleate**

CAS No. 142-16-5

Classification Concentration-

Skin Irrit. 2;

Eye Irrit. 2;

STOT -SE 3; H315, H319, H335 Xi, R36/37/38

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 3. Hazards identification

Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

According to European Directive 67/548/EEC as amended.

Irritating to eyes, respiratory system and skin.

Pictogram

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Signal word      Warning

Hazard statement(s)

H315              Causes skin irritation.

H319              Causes serious eye irritation.

H335              May cause respiratory irritation.

Precautionary statement(s)      Warning

P261              Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P305 + P351 + P338      IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazard symbol(s)

Xi Irritant

R-phrase(s)

R36/37/38 Irritating to eyes, respiratory system and skin.

S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 Wear suitable protective clothing.

**Other hazards** –None

## 4. First aid measures

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. Fire-fighting measures

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. Accidental release measures

### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Normal measures for preventive fire protection.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

## 8. Exposure controls/personal protection

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Eye protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. Physical and chemical properties

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**Appearance**

Appearance: BEIGE LIQUID WITH NO ODOUR Boiling/Melting point : >100 (°C)

Vapor pressure : NOT AVAILABLE

Density : 0.94-0.96 g/ml (g/cc @ 20 °C)

Flash Point : NOT APPLICABLE

Flammability Limits : Not applicable

Solubility in water : MISCIBLE (g/L @ 20 °C)

Flammability Limits : Not applicable

Solubility in water : MISCIBLE (g/L @ 20 °C)

Hazard code : \*XI\* IRRITANT

pH : 2.7 (20 g/l)

Viscosity : 140 mPa.s at 25 °C

**Chemical Entity CAS No. Proportion**

MALEIC ACID, BIS(2-ETHYLHEXYL)ESTER 142-16-5 36%

2-ETHYLHEXANOL 104-76-7 0.74 %

NON HAZARDOUS INGREDIENTS To 100 %

SELF-EMULSIFYING PREPARATION OF OILS, CARBONIC ACID ESTERS AND SPECIAL ADDITIVES, SLIGHTLY ANIONIC.

**10. Stability and reactivity****Chemical stability**

Stable under recommended storage conditions.

**Conditions to avoid**

No data available

**Materials to avoid**

Strong oxidizing agents, Strong bases

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

**11. Toxicological information****Skin corrosion/irritation**

Skin - rabbit - Open irritation test

**Serious eye damage/eye irritation**

Eye: NOT YET TESTED

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Potential health effects****Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.**Ingestion** May be harmful if swallowed.**Skin** May be harmful if absorbed through skin. Causes skin irritation.**Eyes** Causes serious eye irritation.**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: ON0875000

**12. Ecological information****Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

**13. Disposal considerations****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

## 14. Transport information

**ADR/RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

## 15. Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2010.

## 16. Other information

Text of H-code(s) and R-phrase(s) mentioned in Section 3

Eye Irrit. Eye irritation

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Skin Irrit. Skin irritation

STOT SE Specific target organ toxicity - single exposure

Xi Irritant

R36/37/38 Irritating to eyes, respiratory system and skin.

**Further information****WARRANTY:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.