



## SAFETY DATA SHEET

### DIOCTYL ADIPATE

#### 1.IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: DIOCTYL ADIPATE

Recommended use: Chemical for industrial

Manufacturer/Supplier: **MODERN CHEMICAL CO.,LTD.**  
82/80 Soi Ekamai 22 (Nuannoi), Sukhumvit 63,  
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#### 2. HAZARDS IDENTIFICATION

##### Label elements

Pictogram



Signal word

Danger

##### Hazard statement(s)

- 1.) Causes skin irritation.
- 2.) May be fatal if swallowed and enters airways.
- 3.) May cause drowsiness or dizziness.
- 4.) Toxic to aquatic life with long lasting effects.
- 5.) May damage the unborn child. Suspected of damaging fertility.

##### Precautionary statement(s)

- 1.) Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- 2.) Avoid release to the environment.



- 3.) IF SWALLOWED: call a doctor/physician. Do NOT induce vomiting.
- 4.) IF IN EYES: Rinse cautiously with water for 15 minutes.
- 5.) IF ON SKIN Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonym:** Adipic acid di(2-ethylhexyl) ester, DOA, DOA Plasticizer

Ingredients	% (w/w)	CAS NO.
DIOCTYL ADIPATE	100	103-23-1

### 4. FIRST AID MEASURES

- General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact:** Wash off with soap and plenty of water. Consult a physician.
- Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Ingestion:** 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.

**Unsuitable Extinguishing Media:**

No data available

**Specific hazards arising from Chemicals:**

Carbon oxides

**Special protective equipment for fire-fighters:**

Wear self contained breathing apparatus for fire fighting if necessary.



## 6. ACCIDENTAL RELEASE MEAS

- Precautions:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
- Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- Methods and Material for Containment and Clean 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 & Product Transfer:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.  
Normal measures for preventive fire protection.

### Conditions for Safe Storage & Unsuitable Materials:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** TWA 165 ppm (1200 mg/m<sup>3</sup>)

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

### Individual Protection Measures

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

**Eye protection:** Safety glasses with side-shields conforming to EN166



**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**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

<b>Form, Color and Odor :</b> liquid, Colorless , Characteristic	<b>Evaporation rate :</b> N/A
<b>Melting Point :</b> -67.8 °C	<b>Specific gravity :</b> 0.923 – 0.930 g/cm <sup>3</sup> at 20 °C
<b>pH :</b> N/A	<b>Solubility in water :</b> Soluble
<b>Boiling point :</b> 417 °C	<b>Viscosity :</b> N/A
<b>Vapour pressure :</b> N/A	<b>Vapour density (air=1) :</b> N/A
<b>Lower explosive limits :</b> N/A	<b>Upper explosive limits :</b> N/A
<b>Auto-ignition temperature :</b> 377°C	<b>Flash point:</b> 196 °C
<b>Odour threshold:</b> N/A	<b>Flammability (solid, gas):</b> N/A
<b>Decomposition temperature:</b> N/A	<b>Solubility in other solvents:</b> N/A
<b>n-octanol/water partition coefficient (log P<sub>ow</sub>):</b> N/A	

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** No data available

**Reactions:** No data available

**Possibility of Hazardous Reactions:** No data available

**Conditions to avoid:** No data available

**Materials to avoid:** Strong oxidizing agents

**Hazardous decomposition products:** Other decomposition products - No data available

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** LD50 (oral, rat): 9110 mg/kg

**Sensitization:** Inhalation May be harmful if inhaled. May cause respiratory tract irritation.  
Ingestion Harmful if swallowed.



Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes Causes eye irritation.

**Chronic toxicity:** No data available

**Further toxicological information:** No data available

## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae No data available

Toxicity to bacteria No data available

**Biodegradability Remarks:** No data available

**Bioaccumulative Potential:** No data available

**Mobility:** No data available

**Affected in any other way:** Very toxic to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

**Material Disposal:** Offer surplus and non-recyclable solutions to a licensed disposal company.

**Container Disposal:** Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### ADR/ADNR

UN-No: 3082 Class: 9 Packing group : III

Proper shipping group: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(2-ethylhexyl) adipate)

### IMGD

UN-No: 3082 Class: 9 Packing group: III

Marine pollutant : YES

Proper shipping group: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(2-ethylhexyl) adipate)



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## IATA

UN-No: 3082

Class: 9

Packing group : III

Proper shipping group: Environmentally hazardous substance, liquid, n.o.s. (Bis(2-ethylhexyl)adipate)

## 15. REGULATORY INFORMATION

### GHS-Labeling

#### Hazard statement(s):

no data available

#### Precautionary statement(s):

no data available

#### R - phrase(s):

no data available

#### S - phrase(s):

no data available

## 16. Other Information

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