



# OPTIMISTIC ORGANIC SDN BHD

Lot No. 3351, Teluk Kalong Industrial Estate  
24007, Kemaman, Terengganu State, Malaysia.

Tel : + 609-8633029 / 8633031 / 8632343  
Website: www.oosb.com.my

## Safety Data Sheet

Revision Date: 25.07.2022 Revision No: 05

### SECTION 1: IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1 PRODUCT IDENTIFIER:

Product Name : DIOCTYL MALEATE  
Synonym : Bis-2 (ethylhexyl) maleate, 2-Butenedioic acid(2Z)-bis (2-ethylhexylester)  
REACH Registration Number : 01-2119524002-60-0011  
CAS-No. : 142-16-5  
EC No. : 205-524-5

#### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Used as a Comonomer in Vinyl & Acrylic emulsion polymerisation for Paints & Adhesives and intermediated for plasticizer products. (PC1, SU12)

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

##### SUPPLIER / MANUFACTURER:

Optimistic Organic Sdn Bhd  
Lot No. 3351, Teluk Kalong Industrial Estate  
24007, Kemaman, Terengganu State  
Malaysia.  
Phone : + 609-8633029 / 8633031 / 8632343 / 8633317  
E-Mail : sales@oosb.com.my / amitshah@oosb.com.my  
Website : www.oosb.com.my

#### 1.4 EMERGENCY TELEPHONE NUMBERS:

Phone : + 609-8633029 / 8633031 / 8632343  
Hand Phone : +60129210734

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Classification according to Regulation (EC) No 1272/2008:

Physical Hazards : Not Classified

Health Hazards :

1. STOT.RE (H373) : Category 2

Environment Hazards

1. Acute aquatic toxicity (H400) : Category 1



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### 2.2 LABELLING ELEMENTS ACCORDING TO REGULATION (EC) NO 1272/2008:

HAZARD PICTOGRAM :



Signal Word : WARNING

#### HAZARD STATEMENTS:

H413 : May cause long lasting harmful effects to aquatic life

#### PRECAUTIONARY STATEMENTS:

##### PREVENTION:

P273 : Avoid release to the Environment  
P501 : Dispose of contents/container in accordance with local regulations.

##### RESPONSE:

P391 : Collect spillage  
P314 : Get medical advice/attention if you feel unwell

### 2.3 OTHER HAZARDS:

This product does not contain any PBT or vPvB Substances.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 SUBSTANCES/MIXTURE

: Substance

Product Name : Dioctyl maleate  
Synonym : Bis-2 (ethylhexyl) maleate, 2-Butenedioic acid(2Z)-bis (2-ethylhexylester)  
Chemical Formula :  $C_{20}H_{36}O_4$   
Concentration :  $\geq 98.5\%$  (w/w)  
Impurities : No impurities relevant for Classification and Labelling



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### SECTION 4: FIRST AID MEASURES

#### 4.1 DESCRIPTION OF FIRST AID MEASURES:

##### GENERAL INFORMATION:

Remove contaminated, soaked clothing immediately and dispose of safely

##### INHALATION:

Keep at rest. Aerate with Fresh air. If symptoms persist, call a physician

##### INGESTION:

Call a Physician immediately. Do not induce vomiting without medical advice.

##### SKIN CONTACT:

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician

##### EYE CONTACT:

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

#### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED:

##### INHALATION:

Inhalation of vapours in high concentration may cause irritation of respiratory system.

##### INGESTION:

Symptoms of exposure may include: Nausea, vomiting, loss of appetite, gastrointestinal irritation and/or diarrhoea.

##### SKIN CONTACT:

May cause allergic skin reaction.

May cause slight skin irritation.

Symptoms of overexposure include: Redness or discoloration, swelling, itching, burning or blistering of skin.

##### EYE CONTACT:

May cause slight irritation.

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

No recommendation given but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical.

If in doubt, GET MEDICAL ATTENTION IMMEDIATELY.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 EXTINGUISHING MEDIA:

Suitable extinguishing media:

Water spray

Foam

Carbon Dioxide or Dry Powder.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Combustible product: Risk of fire if exposed to flame or heat.

The Heating can cause expansion or decomposition, leading to violent burst of the container.

It can cause toxic fumes of carbon monoxide or irritant smoke.



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Mists with combustible products can be explosive. Avoid reactions with oxidizing agents.

### 5.3 ADVICE FOR FIREFIGHTERS:

Special Fire Fighting Procedures Keep run-off water out of water sources.  
Dike for water control. Cool containers exposed to flames with water also after the fire is out.  
Move container from fire area if it can be done without risk. Keep up-wind to avoid fumes (or exhalations).  
Protective Measures in Fire. Use self-contained breathing apparatus and clothes for chemical reagents

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Avoid contact with the skin and the eyes.  
Keep away from heat and sources of ignition.  
Provide adequate ventilation

### 6.2 ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage.  
Do not discharge into the drains/surface waters/groundwater

### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.  
Disposal of in accordance with local regulations.

## SECTION 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Avoid contact with Skin and Eyes.  
Good personal hygiene is necessary.  
Wash hands and contaminated areas, clothes with Water and Soap before leaving the work site.  
Eliminate all sources of ignition.

### 7.2 CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES:

Store in tightly closed original container in a dry, cool and well-ventilated place.  
Do not store near heat sources or expose to High Temperatures.  
Keep in original container.

### 7.3 PROTECTION AGAINST EXPLOSIONS AND FIRES:

Keep away from sources of ignition. No smoking.  
Take necessary action to avoid static electricity discharge. Ground and bond containers when transferring material.  
In case of fire, emergency cooling with water spray should be available.



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### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS:

No Exposure limits established.

#### 8.2 EXPOSURE CONTROLS:

##### APPROPRIATE ENGINEERING CONTROLS

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

##### INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

##### PROTECTIVE EQUIPMENT:

Hand protection: Chemical resistant gloves required for prolonged or repeated contact.

Eye protection: Tightly fitting safety goggles.

In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

Skin Protection: Impervious clothing.

Respiratory protection: If aerosols or vapours are present, respiratory protection is required (gas filter A)

Hygiene measures: When using do not eat, drink or smoke. Wash promptly if skin becomes wet or contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet.



### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	: Clear Liquid
Colour	: Colourless to light yellowish
Odour	: Ester-like
Odour threshold	: Not determined
Molecular weight	: 340.56 g/mol
Melting Point/Freezing Point	: -60°C
Initial Boiling Point & Boiling Range	: 345°C
Flammability (Solid, Gas)	: Not applicable
Flammability Limit – Lower	: Not applicable
Flammability Limit – Upper	: Not applicable
Flash Point	: 160 ° C
Auto Ignition Temperature	: 260°C
Decomposition Temperature	: Not determined
pH	: Not determined
Viscosity	: 8.29 ±2 cps @20 °C
Water Solubility	: <36 µg/L @20 °C
Partition Coefficient; n-Octanol/Water	: 7.24
Vapour pressure	: 0.00022hpa @ 20°C
Relative density	: 0.94 g/cm <sup>3</sup> @ 20°C
Relative vapour density	: 11.7 (Air=1)
Evaporate Rate	: Not determined



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### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 REACTIVITY:

Stable under normal conditions of handling, use and transportation.

#### 10.2 CHEMICAL STABILITY:

No decomposition if used as directed. If heated to thermal decomposition the following decomposition products may occur depending on the conditions. Carbon dioxide.

#### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Polymerization can occur.

#### 10.4 CONDITIONS TO AVOID:

Avoid any sources of ignition. Avoid contact with heat, sparks, open flame and static discharge.

#### 10.5 INCOMPATIBLE MATERIALS:

None Known

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion may liberate Carbon Oxides and other Toxic Gases or Vapours.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

##### Acute toxicity:

Acute Toxicity (Oral LD50), >2000 mg/kg Rat  
Acute Toxicity (Dermal LD50), 14000 mg/kg Rabbit  
Acute Toxicity (Inhalation LC50) 4h : No data available

##### Serious Eye Damage/irritation:

Slight irritant effect-does not require labelling.

##### Respiratory or skin sensitisation:

Skin Sensitizing.

##### Reproductive Toxicity:

No adverse reproductive effects at the highest dose tested.

##### Inhalation:

Inhalation of vapours in high concentration may cause irritation of respiratory system.

##### Ingestion:

Symptoms of exposure may include: Nausea, vomiting, loss of appetite, gastrointestinal irritation and/or diarrhoea.



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### Skin contact:

May cause allergic skin reaction.

May cause slight skin irritation.

Symptoms of overexposure include: Redness or discoloration, swelling, itching, burning or blistering of skin.

## SECTION 12: ECOLOGICAL INFORMATION

### Eco-toxicity:

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 12.1 TOXICITY

LC50, 96 Hrs, Fish >100 mg/l

EC50, 48 Hrs, Daphnia, 59.5mg/l

Acute Toxicity - Aquatic Plants

EC50, 72 hours Pseudotirchneriella subcapitata >0.619 mg/l

### 12.2 PERSISTENCE AND DEGRADABILITY

Degradability

The product is easily Bio-degradable.

### 12.3 BIO-ACCUMULATIVE POTENTIAL

This product is not Bio-accumulating.

### 12.4 MOBILITY IN SOIL

No data available.

### 12.6 OTHER ADVERSE EFFECTS

Not known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Description of waste residues:

Waste is classified as hazardous waste.

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

### 13.1 Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed to licensed waste disposal according to local authority.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN NUMBER

UN No. (ADR/RID/ADN) : 3082

UN No. (IMDG) : 3082

UN No. (ICAO) : 3082



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### 14.2 UN PROPER SHIPPING NAME

(ADR/RID/ADN) : BIS(2-ETHYLHEXYL) MALEATE  
(IMDG) : BIS(2-ETHYLHEXYL) MALEATE  
(ICAO) : BIS(2-ETHYLHEXYL) MALEATE

### 14.3 TRANSPORT HAZARD CLASS (ES)

ADR / RID / ADN Class : Class 9  
ADR Label No. : 9  
IMDG Class : 9  
ICAO Class/Division : 9

#### TRANSPORT LABEL:



### 14.4 PACKING GROUP

IMDG : III  
ICAO : III

### 14.5 ENVIRONMENTAL HAZARDS

Marine Pollutant - YES

### 14.6 SPECIAL PRECAUTIONS FOR USER

EmS : F-A, S-F  
Hazchem Code : M6  
Hazard No. (ADR) : 90  
Tunnel Restriction Code : (E)

### 14.7 MARITIM TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS:

Not applicable.

## SECTION 15: REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE HAZARDOUS CHEMICAL

Regulation (EC) 1907/2006  
Regulation (EC) No 1272/2008  
Commission Regulation (EU) 2020/878

The components of this product are reported in the following inventories:

AICS : On the inventory, or in compliance with the inventory





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CICR	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
EINECS	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
ISHL	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
TCSA	: On the inventory, or in compliance with the inventory

## 15.2 CHEMICAL SAFETY ASSESMENT:

Yes

## SECTION 16: OTHER INFORMATION

SDS Preparation date	: 25.06.2018
Revision No.	: 04
SDS Revision Date	: 27.07.2022
Revision No.	: 05

Key or legend to abbreviations and acronyms used in :

Acute Tox.	: Acute Toxicity
Skin Corr.	: Skin Corrosion/Irritation
Resp. Sens.	: Respiration Sensitization
Skin Sens.	: Skin Sensitization
Eye Dam.	: Eye Damage
STOT RE.	: Single Target Organ Toxicity – Repeated Exposure
PBT	: Persistent, Bioaccumulative and Toxic.
vPvB	: Very Persistent, Very Bioaccumulative
AICS	: Australian Inventory of Chemical Substances
CICR	: Turkish Chemical Substance Inventory
DSL	: Canada Domestic Substances List
ENCS	: Japan Inventory of Existing and Notified Substances
IECSC	: Inventory of Existing Chemical Substances in China
KECI	: Korea Existing Chemicals List
NZIoC	: New Zealand Inventory of Chemicals
PICCS	: Philippine Inventory of Chemicals and Chemical Substances
TCSA	: Toxic Substances Control Act
PC1	: Product category- Adhesives and sealants.
SU12	: Sector of use -Manufacture of plastic products, including compounding and conversion.

### Disclaimer

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