



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT CODE** A0621  
**PRODUCT NAME** DIETHYL PHTHALATE  
**SUPPLIER** Shanghai M & U International Trade Co., Ltd.  
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**FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)**

### 2. HAZARD IDENTIFICATION:

#### Classification of the substance or mixture

Acute Aquatic Tox. 3 H402

#### Label elements

Harmful in contact with skin or if inhaled.

#### GHS label elements

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible. The substance is classified and labeled according to the Globally Harmonized System (GHS).

#### Hazard pictograms

#### Signal word

Warning

#### Hazard statements

H402 Harmful to aquatic life.

#### Precautionary statements

P273 Avoid release to the environment.  
P501 Dispose of contents/container to an approved waste disposal plant.

#### Classification system:

#### NFPA ratings (scale 0 - 4)

Health = 0

Fire = 1

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = 0

Fire = 1

Reactivity = 0

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:**

Not applicable.

**vPvB:**

Not applicable.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS:**

**Chemical characterization: Substances**

**CAS No.:** 84-66-2

**Description:** DEP, Diethyl Phthalate

**Identification number(s)**

**EC No.:** 201-550-6

**Hazardous Components**

Component	Classification	Concentration
Diethyl phthalate	Aquatic Acute 3; H402	90-100%

**4. FIRST-AID GUIDE:**

**Description of first aid measures**

**After inhalation:**

Supply fresh air. In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms persist consult doctor.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5. FIRE-FIGHTING GUIDE:**

**Extinguishing media**

**Suitable extinguishing agents:**

CO2 or extinguishing powder. Fight larger fires with alcohol resistant foam.

**Special hazards arising from the substance or mixture**

No further relevant information available.

**Advice for firefighters**

**Protective equipment:**

No special measures required.

**Additional information**

Cool endangered receptacles with water spray.

Collect contaminated firefighting water separately. It must not enter the sewage system.

**6. ACCIDENTAL RELEASE GUIDE:**

**Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Wear protective equipment.

Keep unprotected persons away.

**Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not allow to enter sewers/surface or ground water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**7. HANDLING AND STORAGE:**

**Handling:**

**Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

**Information about protection against explosions and fires:**

Keep ignition sources away – do not smoke.  
Protect against electrostatic charges.

**Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:**

No special requirements.

**Information about storage in one common storage facility:**

Not required.

**Further information about storage conditions:**

Store in cool, dry location. Keep receptacle tightly sealed.

**Specific end use(s)**

No further relevant information available.

**8. EXPOSURE AND PERSONAL PROTECTION:**

**Additional information about design of technical systems:**

No further data; see item 7.

**Control parameters**

**Components with limit values that require monitoring at the workplace:**

Component	CAS-No.	Value	Control Paramaters	Basis
Diethyl Phthalte	84-66-2	TWA	5.000 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation. Not classifiable as human carcinogen.		
		TWA	5.000 mg/m <sup>3</sup>	USA. NIOSH Rekommeded Expusure Limits
		PEL	5 mg/m <sup>3</sup>	Califronia permissible exposure limits for chemical vontaminants (title 8, Article 107)
		TWA	5 mg/m <sup>3</sup>	USA. ACGIH Threshold limit values (TLV)
		Upper Respiratory Tract Irritation Not classifiable as human carcinogen		

		TWA	5mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
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**Additional information:**

The lists that were valid during the creation were used as a basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

**Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material**

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



Tightly sealed goggles.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Information on basic physical and chemical properties

<b>General Information</b>	
<b>Appearance:</b>	
<b>Form:</b>	Liquid
<b>Color:</b>	Light yellow
<b>Odor:</b>	Not determined.
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	-3°C (-27 °F)
<b>Boiling point/Boiling range:</b>	298-299°C (568-570 °F)
<b>Flash point:</b>	156.0°C (312.8 °F)
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Not determined.
<b>Danger of explosion:</b>	
<b>Explosion limits:</b>	
<b>Lower:</b>	
<b>Upper:</b>	
<b>Vapor pressure:</b>	Not determined.
<b>Density at 25 °C (77 °F):</b>	1.12 g/mL
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Organic solvents:</b>	0.0 %
<b>Other information</b>	No further relevant information available.

**10. STABILITY AND REACTIVITY:**

**Reactivity**

**Chemical stability**

**Thermal decomposition/conditions to be avoided:**

No decomposition if used according to specifications.

**Possibility of hazardous reactions**

No dangerous reactions known.

**Conditions to avoid**

No further relevant information available.

**Incompatible materials:**

Oxidizing agents, acids.

**Hazardous decomposition products:**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION:**

**Information on toxicological effects**

**Acute toxicity:**

LD50 Oral - Rat - 8,600 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity).

LC50 Inhalation - Rat - 6 h - > 4,640 mg/m<sup>3</sup>

LD50 Dermal - Rat - male and female - > 10,000 mg/kg

**Primary irritant effect:**

**On the skin:**

Irritant to skin and mucous membranes.

**On the eye:**

Irritating effect.

**Respiratory or skin sensitisation**

- Mouse

Result: Did not cause sensitisation on laboratory animals.  
(OECD Test Guideline 429)

**Germ cell mutagenicity**

Mouse

lymphocyte

Result: negative

Ames test

S. typhimurium

Result: negative

**Additional toxicological information:**

**Carcinogenic categories**

**IARC (International Agency for Research on Cancer)**

Substance is not listed.

**NTP (National Toxicology Program)**

Substance is not listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

**12. ECOLOGICAL INFORMATION:**

**Toxicity**

**Aquatic toxicity:**

Toxicity to fish static test LC50 - *Oncorhynchus mykiss* (rainbow trout) - 12 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates static test LC50 - *Daphnia magna* (Water flea) - 90 mg/l - 48 h

Toxicity to algae static test EC50 - *Desmodesmus subspicatus* (*Scenedesmus subspicatus*) - 23mg/l - 72 h (OECD Test Guideline 201)

**Persistence and degradability**

Biodegradability aerobic - Exposure time 28 d  
Result: 94.6 % - Readily biodegradable.

**Behavior in environmental systems:**

**Bioaccumulative potential**

Bioaccumulation *Lepomis macrochirus* (Bluegill) - 21 d - 0.00942 mg/l

Bioconcentration factor (BCF): 117.

**Mobility in soil**

No further relevant information available.

**Additional ecological information:**

**General notes:**

Water hazard class 1 (assessment by list): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment**

**PBT:**

Not applicable.

**vPvB:**

Not applicable.

**Other adverse effects**

No further relevant information available.

**13. DISPOSAL RECOMMENDATIONS:**

**Waste treatment methods**



**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging:****Recommendation:**

Disposal must be made according to official regulations.

**14. TRANSPORTATION INFORMATION:**

<b>UN-Number DOT, ADR, IMDG, IATA</b>	UN3082
<b>UN proper shipping name DOT  ADR IMDG, IATA</b>	Environmentally hazardous substance, liquid, n.o.s. (Diethyl phthalate)
<b>Transport hazard class(es) DOT, ADR, IMDG, IATA Class</b>	9
<b>Packing group DOT, ADR, IMDG, IATA</b>	III
<b>Environmental hazards: Marine pollutant:</b>	Yes Toxic to aquatic life.
<b>Special precautions for user Danger code: EMS No.:</b>	No
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable
<b>Transport/Additional information: DOT Quantity limitations</b>	Not applicable
<b>ADR Excepted quantities (EQ)</b>	Not applicable
<b>IMDG Limited quantities (LQ) Excepted quantities (EQ)</b>	Not applicable
<b>UN "Model Regulation":</b>	Not applicable

**15. REGULATORY INFORMATION:**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Sara**

**Section 355 (extremely hazardous substances):**

Substance is not listed.

**Section 313 (Specific toxic chemical listings):**

Substance is not listed.

**TSCA (Toxic Substances Control Act):**

Substance is not listed.

**Proposition 65**

**Chemicals known to cause cancer:**

Substance is not listed.

**Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

**Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

**Chemicals known to cause developmental toxicity:**

Substance is not listed.

**Carcinogenic categories**

**EPA (Environmental Protection Agency)**

Substance is not listed.

**TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

**GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.

**Hazard statements**

H402 Harmful to aquatic life.

**Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents/container to an approved waste disposal plant.

**Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

## 16. OTHER INFORMATION:

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

**Prepared By:** M&U International LLC

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