

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0646
PRODUCT NAME DIETHYL HEXYL ADIPATE
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:



GHS07

GHS09

Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2A	H320 Causes serious eye irritation
Acute Aquatic 1, Long Term Aquatic 1	H410 Very toxic to aquatic life with long lasting effects

Label elements

Harmful in contact with skin and vapor.

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

H315 May be harmful in contact with skin.
H319 Causes serious eye irritation.
H320 Causes skin and eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release into environment.
P280 Wear protective body, face and eye protection.
P301+P310 If swallowed: immediately call a poison center/doctor.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so.
P332+P337+P313 IF skin or eye irritation occurs get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:**NFPA ratings (scale 0 - 4)**

Health = 2
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 2
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.: 103-23-1

Description: diethyl hexyl adipate

Identification number(s)

EC No.:

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. Call a doctor if symptoms develop or persist.

After skin contact:

Take off immediately any contaminated clothing. Immediately rinse with water and soap and rinse thoroughly.

After eye contact:

Remove contact lenses if present and easy to do so. Rinse opened eye for several minutes under running water. Consult a doctor.

After swallowing:

Call a control center or doctor immediately. If swallowed rinse mouth with water (only if person is conscious). 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

Wear protective equipment. Keep unprotected persons away. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material.

Environmental precautions:

Prevent further leakage if safe to do so. Do not allow product to enter sewers/surface or ground water. Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic environment.

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

Do not handle or store near an open flame. Take precautionary measures against static charges. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

Information about protection against explosions and fires:

No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Keep container closed, handle containers with care.

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:**

Use explosion proof ventilation equipment.

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

General Information	
Appearance:	
Form:	Liquid
Color:	According to product spec
Odor:	According to product spec
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-90.04°F (-67.8 °C)
Boiling point/Boiling range:	417.2°C (214 °F)
Flash point:	>93°C (>200°F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Not determined
Explosion limits:	
Lower:	
Upper:	
Vapor pressure:	Not determined.
Density at 25 °C:	0.92 g/cm ³
Relative density	Not determined.
Vapour density	12.8
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	Not determined.
Other information	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

Extreme temperatures, strong oxidizing agents.

Incompatible materials:

Strong oxidizing agents.

Hazardous decomposition products:

No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

On the skin:

Irritant to skin and mucous membranes. May cause redness and pain.

On the eye:

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Sensitization:

No sensitizing effects known.

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:

Harmful to aquatic life with long lasting effects.

Algae	EC50	Green algae (<i>desmodesmus subspicatus</i>), (>500 mg/l, 72 hours)
Crustacea	LC50	Water flea, (<i>daphnia magna</i>) (0.48-0.85 mg/l, 48 hours)
Fish	LC50	Bluegill (<i>lepomis</i>) (0.48-0.85 mg/l, 96 hours) Rainbow trout, Donaldson trout (0.48-0.85 mg/l, 96 hours)

Persistence and degradability

No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential

Not biodegradable.

Mobility in soil

No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 2 (assessment by list): hazardous for water. Do not let discharge reach drains, Water courses, or onto the ground. Do not allow material to enter drains, sewers/water supplies.

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. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

14. TRANSPORTATION INFORMATION:

UN-Number DOT, ADR, IMDG, IATA	UN3082
UN proper shipping name DOT ADR IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DICOTYL ADIPATE)  
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	9
Packing group DOT, ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant:	YES Environmentally hazardous substance
Special precautions for user Danger code: EMS No.: Stowage Category	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information: DOT Quantity limitations	
ADR Excepted quantities (EQ)	
IMDG Limited quantities (LQ) Excepted quantities (EQ)	
UN "Model Regulation":	

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 311/312 (hazardous chemical): Yes

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

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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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