



TCI AMERICA

SAFETY DATA SHEET

Revision number: 1
Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Diethyl Phthalate
Product code: P0296

Product use: For laboratory research purposes.
Restrictions on use: Not for drug or household use.

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2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Skin Corrosion/Irritation [Category 2]
WHMIS 2015: Eye Damage/Irritation [Category 2B]
Sensitization - Skin [Category 1]
Specific Target Organ Toxicity (Single Exposure) [Category 3]
Aquatic Hazard (Acute) [Category 2]

Signal word: Warning!

Hazard Statement(s): Causes skin irritation
Causes eye irritation
May cause an allergic skin reaction
Toxic to aquatic life
May cause respiratory irritation. May cause drowsiness or dizziness.

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

[Prevention]

Avoid breathing mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Contaminated work clothing must not be allowed out of the workplace. Wash hands and face thoroughly after handling. Wear protective gloves.

[Response]

If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

[Storage]

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

[Disposal]

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:
[HNOC]

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Diethyl Phthalate
Percent:	>99.0%(GC)
CAS RN:	84-66-2
Molecular Weight:	222.24
Chemical Formula:	C ₁₂ H ₁₄ O ₄
Synonyms:	Phthalic Acid Diethyl Ester

4. FIRST-AID MEASURES**Description of first aid measures**

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.

Symptoms/effects:

Acute:	Dizziness. Redness. Drowsiness.
Delayed:	May cause skin sensitization. May have effects on the respiratory tract.

Indication of any immediate medical attention:

Not available.

Notes to physician:

No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Unsuitable extinguishing media:	Solid streams of water
Hazardous combustion products:	These products include: Carbon oxides
Other specific hazards:	Closed containers may explode from heat of a fire.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions:	Prevent product from entering drains.
Methods and materials for containment and cleaning up:	Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including any incompatibilities	
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.
Packaging material:	Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

ACGIH TLV(TWA):	5 mg/m ³
JSOH OELs(TWA):	5 mg/m ³

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Liquid		
Form:	Clear		
Colour:	Colorless		
Odour:	Nearly odorless		
Odor threshold:	No data available		
Odour threshold:	No data available		
Melting point/freezing point:	-41°C (-42°F)	pH:	No data available
Boiling point/range:	296°C (565°F)	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	7.7
Relative density:	1.12	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available		
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point:	162°C (324°F)	Autoignition temperature:	457°C (855°F)
Flammability(solid, gas):	No data available	Flammability or explosive limits:	
		Lower:	0.7%
		Upper:	No data available
Solubility(ies):			
[Water]	Very slightly soluble (1000mg/L, 25°C)		
[Other solvents]			
Soluble:	Ether, Alcohols, Benzene, Acetone, Many organic solvents		

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical stability:	Stable under proper conditions.
Possibility of hazardous reactions:	No special reactivity has been reported.
Incompatible materials:	Oxidizing agents, Strong acids
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

RTECS Number: T11050000

Acute Toxicity:ipr-rat LD50:5058 uL/kg
orl-rat LD50:8600 mg/kgorl-mus LD50:6172 mg/kg
orl-rbt LD50:1 g/kg**Skin corrosion/irritation:**

skn-hmn 2 %/3W-I MLD

Serious eye damage/irritation:

eye-rbt 112 mg

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

mmo-sat 200 ug/plate (+S9)

Carcinogenicity:

skn-mus TDLo:618 mL/kg/2Y-I

IARC: No data available

NTP: No data available

OSHA: No data available

Reproductive toxicity:

skn-rbt TDLo:26 mL/kg (6-18D preg)

orl-mus TDLo:3.64 g/kg (multigenerations)

Target organ(s):

May cause respiratory irritation.

May cause drowsiness or dizziness.

12. ECOLOGICAL INFORMATION**Ecotoxicity:****Fish:** No data available**Crustacea:** No data available**Algae:** No data available**Persistence / degradability:**

88% (by BOD) , 100% (by HPLC) , 97% (by TOC)

Bioaccumulative potential(BCF):

117

Mobility in soil**Log Pow:** 2.47**Soil adsorption (Koc):** 320 - 1726**Henry's Law (PaM³/mol):** 6.2 x 10⁻²**13. DISPOSAL CONSIDERATIONS****Disposal of product:**

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.

Disposal of container:

Dispose of as unused product. Do not re-use empty containers.

Other considerations:

Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION**DOT (US)**

Non-hazardous for transportation.

IATA

Non-hazardous for transportation.

IMDG

Non-hazardous for transportation.

15. REGULATORY INFORMATION**Toxic Substance Control Act (TSCA 8b.):**

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations**CERCLA Hazardous substance and Reportable Quantity:**

SARA 313: Not Listed
SARA 302: Not Listed

State Regulations**State Right-to-Know**

Massachusetts Listed
New Jersey Listed
Pennsylvania Listed
California Proposition 65: Not Listed

Other Information**NFPA Rating:**

Health: 0
Flammability: 1
Instability: 0

HMIS Classification:

Health: 0
Flammability: 1
Physical: 0

International Inventories

Canada: DSL On DSL
EC-No: 201-550-6

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.