

Diethyl Phthalate (DEP)	84-66-2	15.0015
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4. First aid measures

First aid measures

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a physician if necessary.
Skin contact	Wash skin with soap and water. Consult a physician if necessary.
Inhalation	Remove to fresh air. Consult a physician if necessary.
Ingestion	Do NOT induce vomiting. Drink plenty of water. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. Fire-fighting measures

Suitable extinguishing media

Water spray or fog is preferred; if water not available use dry chemical, CO2 or regular foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous combustion products Carbon oxides.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin and eyes. Wear boots, gloves and protective suit when handling large spills. Ensure adequate ventilation.
Other Information	Report spills as required to the appropriate authorities.

Environmental precautions

Environmental precautions	No information available.
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Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take all appropriate steps to avoid contamination of ground water.

7. Handling and Storage

Precautions for safe handling

Handling Avoid contact with skin and eyes. Keep container in a well-ventilated place. Do not puncture, crush or incinerate containers. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep away from heat.

Incompatible materials Acids and oxidizing agents.

8. Exposure Controls/Personal Protection**Control parameters**

Exposure guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethyl Phthalate (DEP) 84-66-2	TWA: 5 mg/m ³	-	

Appropriate engineering controls

Engineering controls Use in well ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits (ACGIH TLV TWA: 5 mg/m³; ACGIH TLV STEL: 10 mg/m³; OSHA PEL TWA: 5 mg/m³).

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses with side-shields.

Skin and Body Protection Use protective gloves and clothing if contact with product is likely.

Respiratory protection If personal exposure levels cannot be maintained below accepted exposure limits, NIOSH/MSHA approved respiratory protection should be worn.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties**Information on basic physical and chemical properties**

Physical state	Liquid	Odor	Pleasant
Appearance	Clear	Odor threshold	No information available
Color	Amber		
Property	Values	Remarks • Method	
pH	Not applicable		
Melting point / freezing point	No information available		
Boiling point	298 °C / 568 °F		
Flash point	>100 °C / >212 °F	Cleveland Open Cup	
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit	No unusual hazard		
Lower flammability limit	No unusual hazard		
Vapor pressure	0.0018 mmHg @ 20 °C		
Vapor density	No information available		
Specific gravity	1.08		

Water solubility	No data available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No unusual hazard
Decomposition temperature	No unusual hazard
Kinematic viscosity	
Dynamic viscosity	No information available
VOC Content, % Vol	Request additional information

10. Stability and Reactivity

Reactivity

No unusual hazard

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal use conditions.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Acids and oxidizing agents.

Hazardous decomposition products

Carbon oxides.

11. Toxicological Information

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known information

Inhalation No data available.

Eye contact May cause irritation.

Skin contact May cause irritation.

Ingestion No data available.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Diethyl Phthalate (DEP) 84-66-2	= 8600 mg/kg (Rat)	> 11200 mg/kg (Rat)	

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause slight irritation.
Serious eye damage/eye irritation	May cause eye irritation.
Sensitization	May cause sensitization in susceptible persons.
Mutagenic Effects	No known effect.
Carcinogenicity	No known effect.
Reproductive effects	No known effect.
STOT - single exposure	No information available.

STOT - repeated exposure No information available.
Chronic toxicity No known effect.
Aspiration Hazard No data available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 85.0085% of the mixture consists of ingredient(s) of unknown toxicity

12. Ecological Information**Ecotoxicity**

85.0085% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Diethyl Phthalate (DEP) 84-66-2	2.11 - 4.29: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 42 - 255: 72 h Pseudokirchneriella subcapitata mg/L EC50 21: 96 h Desmodesmus subspicatus mg/L EC50 static 21: 96 h Desmodesmus subspicatus mg/L EC50 23: 72 h Desmodesmus subspicatus mg/L EC50 static 23: 72 h Desmodesmus subspicatus mg/L EC50	12: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 22: 96 h Lepomis macrochirus mg/L LC50 flow-through 16.7: 96 h Lepomis macrochirus mg/L LC50 static 16.8: 96 h Pimephales promelas mg/L LC50 static 17: 96 h Pimephales promelas mg/L LC50 flow-through	EC50 = 112 mg/L 30 min EC50 = 114 mg/L 15 min EC50 = 114 mg/L 5 min	86: 48 h Daphnia magna mg/L EC50 Static 36 - 74: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

No additional remarks.

Chemical name	Log Pow
Diethyl Phthalate (DEP) 84-66-2	2.35

Other adverse effects None known

13. Disposal Considerations**Waste treatment methods**

Waste Disposal Method Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Diethyl Phthalate (DEP) 84-66-2	waste number U088	Included in waste stream: F039	Not applicable	waste number U088

14. Transport Information**DOT**

UN-No Not regulated
Proper shipping name Not regulated
Hazard Class Not regulated
Packing group Not regulated
Labels Not regulated
Description Not regulated

TDG

UN-No	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
Labels	Not regulated
Description	Not regulated

IMDG/IMO

UN-No	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
Labels	Not regulated
Description	Not regulated

ADR/RID

UN-No	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
ADR/RID-Labels	Not regulated
Description	Not regulated

IATA

UN-No	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Labels	Not regulated
Packing group	Not regulated
Description	Not regulated

PG* : Packing group

15. Regulatory information**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight-%	SARA 313 - Threshold Values %
Diethyl Phthalate (DEP) - 84-66-2	84-66-2	15.0015	

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Diethyl Phthalate (DEP) 84-66-2			X	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	SARA Hazardous Substance Required Qty
Diethyl Phthalate (DEP) 84-66-2	1000		RQ= 1000lb final RQ RQ= 454kg final RQ

U.S. Regulations & Inventories**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

The table below lists any regulatory or inventory listing information found for ingredients of this product which are considered hazardous. All other components are either listed on the TSCA inventory or are exempt from listing. See Section 16 for explanation of column headings.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Diethyl Phthalate (DEP) 84-66-2	X	X	X

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. Other information

NFPA	HEALTH 1	Flammability 1	Instability 0	Physical hazard -
HMIS	HEALTH 1	Flammability 1	Physical Hazards 0	Personal Protection -

Issue Date 02-03-2015

Revision date 02-03-2015

Revision Summary

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS