

MSDS

Material Safety Data Sheet

Date prepared: August, 29th, 2012

Date revised: N/A (first edition)

Section 1 - General Information

Chemical Name: Diethyl phthalate
Synonyms: DEP
CAS Reg. Number: 84-66-2
Catalog Number: 1ST1118
Manufacturer's Name: A Chemtek, Inc.
100 Barber Avenue
Worcester, MA 01606, USA
Telephone Number: 508-471-4121
Fax Number: 508-845-9201

For R & D use only

Section 2 - Hazardous Ingredients/Identity Information

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute aquatic toxicity (Category 3), H402

GHS Label elements, including precautionary statements

Pictogram none

Signal word none

Hazard statement(s)

H402 Harmful to aquatic life.

Precautionary statement(s)

P273 Use only outdoors or in a well-ventilated area.

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

HMIS Classification

Health hazard: 0

Chronic Health Hazard: *

Flammability: 1

Physical hazards: 0

NFPA Rating

Health hazard: 0

Fire: 1

Reactivity Hazard: 0

Section 3 - Composition/Information on Ingredients

Formula: C₁₂H₁₄O₄
Molecular Weight: 222.24 g/mol
CAS-No. 84-66-2

Section 4 - First Aid Measures

GENERAL ADVICE: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

SKIN CONTACT: Wash off with soap and plenty of water. Consult a physician.

INHALATION: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

INGESTION: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 - Fire-Fighting Measures

Flammable properties

Flash point not available

Ignition temperature not available

Suitable extinguishing media

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Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 - Accidental Release Measures

Personal precautions	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods for cleaning up	Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

Handling	Avoid inhalation of vapour or mist.
Storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8 - Exposure Controls/Personal Protection

Components with workplace control parameters

Personal protective equipment

Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye protection	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 - Physical and Chemical Properties

Appearance:	Form	Liquid
	Color	Light yellow

Safety data

pH:	not available
Melting point:	Melting point/range: 3 °C (37 °F)
Boiling point:	298 - 299 °C (568 - 570 °F)
Flash point:	156.0 °C (312.8 °F) - closed cup
Ignition temperature:	not available
Lower explosion limit:	not available
Upper explosion limit:	not available
Water solubility:	not available

Section 10 - Stability and Reactivity

Storage stability	Stable under recommended storage conditions.
Materials to avoid	Strong oxidizing agents.

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Hazardous decomposition products Hazardous decomposition products formed under fire conditions.
Carbon oxides.

Section 11 - Toxicological Information

Acute toxicity:

Oral LD50

LD50 Oral - rat - 8,600 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity).

Inhalation LC50

LC50 Inhalation - rat - 6 h - > 4,640 mg/m³

Dermal LD50

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

Other information on acute toxicity

not available

Irritation and corrosion:

not available

Sensitization:

not available

Respiratory or skin sensitization: not available

Chronic exposure

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.

Section 12 - Ecological Information

Elimination information (persistence and degradability)

not available

Ecotoxicity effects:

not available

Further information on ecology: not available

Section 13 - Disposal Considerations

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.
Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Section 14- Transport Information

DOT (US):

UN number: 3082

Class: 9

Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Diethyl phthalate)

Reportable Quantity (RQ): 1000 lbs

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG:

Not dangerous goods

IATA:

Not dangerous goods

Section 15 - Regulatory Information

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

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Massachusetts Right To Know Components

Diethyl phthalate CAS-No. 84-66-2 Revision Date 1994-04-01

Pennsylvania Right To Know Components

Diethyl phthalate CAS-No. 84-66-2 Revision Date 1994-04-01

New Jersey Right To Know Components

Diethyl phthalate CAS-No. 84-66-2 Revision Date 1994-04-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 - Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. A Chemtek shall not be held liable for any damage resulting from handling or from contact with the above product.