





# Safety Data Sheet

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision date: 28.02.2016	
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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### **Product identifier**

Trade name/designation:	DEPC (diethyl pyrocarbonate)
Product No.:	MD5758
Synonymes:	no data available
CAS No.:	1609-47-8
Other means of identification:	

### Relevant identified uses of the substance or mixture and uses advised against

Recommended Use:	For Further Manufacturing Use Only
Uses advised against:	Not for Human or Animal Drug Use

# Details of the supplier of the safety data sheet

United States of America

# Supplier

VWR International LLC	
Street	100 Matsonford Road Radnor Corporate Center, Building One, Suite 200 P.
	O. Box 6660
Postal code/city	Radnor, PA 19087
Telephone	+1-800-932-5000 toll-free within US/CA
	+1-610-386-1700
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# Manufacturer

**VWR Chemicals, LLC** Street Postal code/city

6351 Inducon Drive East Sanborn, NY 14132

# **Emergency telephone**

Telephone

+1-800-424-9300 (Chemtrec, 24 hrs/day, 7 days/week, USA)

# Preparation Information

VWR International - Data Compliance

E-mail

sds@vwr.com

# SECTION 2: Hazards identification

# 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Hazard classes and hazard categories	Hazard statements
Acute toxicity, category 4, oral	H302
Eye irritation, category 2	H319
Specific target organ toxicity (single exposure), category 3, vascular	H335

# 2.2 Label elements

Labelling in accordance with 29 CFR 1910.1200 (OSHA HCS)

# Hazard pictograms



Signal word: Warning

Hazard statements	
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.









Precautionary	
statements	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
	Continue rinsing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor/

### Other hazards

# Hazards not otherwise classified (HNOC)

no data available

# **SECTION 3: Composition / information on ingredients**

# 3.1 Substances

Substance name	Diethyl pyrocarbonate
Molecular formula	C6H10O5
Molecular weight	162.14 g/mol
CAS No.	1609-47-8

# **SECTION 4: First aid measures**

### **4.1 General information**

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

### After inhalation

Call a POISON CENTER/doctor. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

### In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

### 4.2 Most important symptoms/effects, acute and delayed

no data available

### 4.3 Indication of any immediate medical attention and special treatment needed

no data available









# 4.4 Self-protection of the first aider

First aider: Pay attention to self-protection!

### 4.5 Information to physician

no data available

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing media which must not be used for safety reasons no restriction

# 5.2 Specific hazards arising from the chemical

In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide Sulphur oxides

### 5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

### **5.4 Additional information**

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray/stream to protect personnel and to cool endangered containers.

# **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

In case of major fire and large quantities: Remove persons to safety.

### 6.2 Environmental precautions

Discharge into the environment must be avoided.

## 6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Collect in closed and suitable containers for disposal.

### 6.4 Additional information

Clear spills immediately.









# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Avoid: Inhalation Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Keep away from sources of ignition. - No smoking. Usual measures for fire prevention. Take precautionary measures against static discharges. Protect from moisture.

### 7.2 Conditions for safe storage, including any incompatibilities

storage temperature: 2-8°C

Storage class: 10-13

Keep container tightly closed in a cool, well-ventilated place. Always close containers tightly after the removal of product. Store product under (gas): Argon Do not allow contact with air.

### 7.3 Specific end use(s)

no data available

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2 Engineering controls

### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

### Personal protection equipment (PPE)

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

*Eye/face protection* Eye glasses with side protection

By short-term hand contact

Skin protection no data available

Suitable material:	no data available
Thickness of the glove material:	no data available
Breakthrough time (maximum wearing time):	no data available
By long-term hand contact	
Suitable material:	no data available
Thickness of the glove material:	no data available

### Respiratory protection

Breakthrough time (maximum wearing time):

Respiratory protection necessary at: aerosol or mist formation If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

no data available









### Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

*Environmental exposure controls* no data available

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

(a) Appearance

Physical state:	liquid
Color:	colorless
(b) Odour:	no data available
(c) Odour threshold:	no data available

# Safety relevant basic data

(d) pH:	no data available
(e) Melting point/freezing point:	no data available
(f) Initial boiling point and boiling range:	93 °C (1013 hPa)
(g) Flash point:	69 °C
(h) Evaporation rate:	no data available
(i) Flammability (solid, gas):	not applicable
(j) Flammability or explosive limits	
Lower explosion limit:	no data available
Upper explosion limit:	no data available
(k) Vapour pressure:	no data available
(I) Vapour density:	no data available
(m) Relative density:	no data available
(n) Solubility(ies)	
Water solubility (g/L):	no data available
Soluble (g/L) in Ethanol:	no data available
(o) Partition coefficient: n-octanol/wate	r: 0.13 (20 °C; calculated)
(p) Auto-ignition temperature:	no data available
(q) Decomposition temperature:	no data available
(r) Viscosity	
Kinematic viscosity:	no data available
Dynamic viscosity:	1.97 mPa*s (20 °C)
(s) Explosive properties:	not applicable
(t) Oxidising properties:	not applicable

# 9.2 Other information

Bulk density:	not applicable
Refraction index:	1.3988 (589 nm; 18 °C)
Dissociation constant:	no data available
Surface tension:	no data available
Henry constant:	no data available









# SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

# **10.2 Chemical stability**

no data available

# **10.3** Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### **10.5 Incompatible materials**

no data available

# **10.6 Hazardous decomposition products**

no data available

### **10.7 Additional information**

no data available

# SECTION 11: Toxicological information

### **11.1 Information on toxicological effects**

### Acute effects

Acute oral toxicity: LD50: > 850 mg/kg - Rat - (Merck KGaA)

Acute dermal toxicity: no data available

Acute inhalation toxicity: no data available

### Irritant and corrosive effects

*Primary irritation to the skin:* not applicable

Irritation to eyes: Causes serious eye irritation.

*Irritation to respiratory tract:* May cause respiratory irritation.









### **Respiratory or skin sensitization**

In case of skin contact: not sensitising After inhalation: not sensitising

### STOT-single exposure

May cause respiratory irritation.

### STOT-repeated exposure

not applicable

# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

no data available	ACGIH	IARC	NTP	OSHA

### Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

### **Reproductive toxicity**

No indications of human reproductive toxicity exist.

### Aspiration hazard

not applicable

### Other adverse effects

no data available

### Additional information

no data available

# **SECTION 12: Ecological information**

# 12.1 Ecotoxicity

Fish toxicity: no data available

Daphnia toxicity: no data available

Algae toxicity: no data available

Bacteria toxicity: no data available









# 12.2 Persistence and degradability

no data available

## 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: 0.13 (20 °C; berechnet)

# 12.4 Mobility in soil:

no data available

### 12.5 Results of PBT/vPvB assessment

no data available

# 12.6 Other adverse effects

no data available

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

### Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal. Send to a hazardous waste incinerator facility under observation of official regulations.

Waste code product: 160508

### Appropriate disposal / Package

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

### **Additional information**

no data available

# **SECTION 14: Transport information**

# Land transport (DOT)

No dangerous good in sense of this transport regulation.

### Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant









# Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.

# **SECTION 15: Regulatory information**

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

### SARA 313 Components

no data available

no data available

no data available

### Pennsylvania Right To Know Components

no data available

**New Jersey Right To Know Components** 

no data available

### California Prop. 65 Components

no data available

# **SECTION 16: Other information**

### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygiensts DOT - Department of Transportation IARC - International Agency for Research on Cancer IATA-DGR - International Air Transport Association-Dangerous Goods Regulations ICAO-TI - International Civil Aviation Organization-Technical Instructions IMDG - International Maritime Code for Dangerous Goods LTV - Long Term Value NIOSH - National Institute for Occupational Safety and Health NTP - National Toxicology Program OSHA - Occupational Safety & Health Administration PBT - Persistent, Bioaccumulative and Toxic PEL - Permissible Exposure Limit STV - Short Term Value SVHC - Substances of Very High Concern TLV - Threshold Limit Value vPvB - very Persistent, very Bioaccumulative ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road AGS - Committee on Hazardous Substances (Ausschuss für Gefahrstoffe) CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures DFG - German Research Foundation (Deutsche Forschungsgemeinschaft) Gestis - Information system on hazardous substances of the German Social Accident Insurance (Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung)









RID - Regulation concerning the International Carriage of Dangerous Goods by Rail

Additional information Indication of changes:

general update

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guidance. The information in this document is based on the present state knowledge and is applicable to the product with regard to appropriate safty precautions. It does not represent any guarantee of the properties of the product. VWR International and his Affiliates shall not be held liable for any damage resulting from handling.

