

Career Henan Chemical Co

MSDS: CC002-EN

DATE: 1/1/2016

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION

Product details

Substance name: Di(2-ethylhexyl) phosphoric acid

Identification of the product: CAS# 298-07-7; EC# 206-056-4

Application of the substance/the preparation: Metal extraction

Manufacturer/Supplier: Career Henan Chemical Co

No.70, Dian Chang Road, Zhengzhou City, China.

Tel: 0086-371-86658258

Fax: 0086-317-60996044

Name : Product details

Trade name: Di(2-ethylhexyl) phosphoric acid

Molecular Weight: 322.48

Chemical Formula: $[\text{CH}_3(\text{CH}_2)_3\text{CH}(\text{C}_2\text{H}_5)\text{CH}_2\text{O}]_2\text{PO}_2\text{H}$

Further information obtainable from: Career Henan Chemical Co

Information in case of emergency: Career Henan Chemical Co

Fax: 0086-371-60996044

[Email: info@coreychem.com](mailto:info@coreychem.com)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
N/A	N/A

2.1.2 Label elements:



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Signal word:Danger

2.2 Label precautionary statements

Corrosive may cause cancer.

Harmful by inhalation,in contact with shin and If swallowed.

In case of contact with eyes,rinse immediately with plenty of water and seek medical advice.Take off immediately all contaminated clothing.

Wear suitable protective clothing,gloves and eye/face protection.

Do not breathe vapor.

2.3 Other hazards:

Not available.

3.COMPOSITION/INFORMATION ON INGREDIENTS

Substance, Mixture or Article? Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Di(2-ethylhexyl) phosphoric acid	17-2119958176-29-0000	298-07-7	206-056-4	≥95%

SYNONYMS :

Bis (2-ethylhexyl) hydrogen phosphate * Bis (2-ethylhexyl) orthophoric acid * Bis (2-ethylhexyl) phosphate * DEHPA Extractant * Di (2-ethylhexyl) orthophosphoric acid * Di (2-ethylhexyl) phosphate * Di-(2-ethylhexyl) phosphoric acid * 2-ethyl-1-hexanol hydrogen phosphate * HDEHP * Kyselina Di (2-) Tj Et Bt /Pj Couri

4.FIRST-AID MEASURES

In case of contact,immediately flush eyes or skin with copious amounts of water for at least 15 minutes while remove contaminated clothing and shoes.

If swallowed,wash out mouth with water provided person is conscious call a physician.

If inhaled,remove to fresh air.If not breathing give artificial respiration.If breathing in difficult,give oxygen.

Assure adequate flushing of the eyes by separating the eyelids with fingers.

5.FIRE FIGHTING MEASURES

Extinguishing media

Water spray.Carbon dioxide,dry chemical power or appropriate foam.

Special firefighting procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosions hazards

Emits toxic fums under fire conditions.

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6.ACCIDENTAL RELEASE MEASURES

Wear self-contained breathing apparatus,rubber boots and heavy rubber gloves.
Absorb on sand or vermiculite and place in closed containers for disposal.
Ventilate area and wash spill site after material pickup is complete.

7.HANDLING AND STORAGE

Store in a tightly closed container.
Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Wash contaminated clothing before reuse.
Wash thoroughly after handling.
Niosh/msha-approved respirator.
Rubber gloves.
Chemical safety goggles.
Safety shower and eye bath.
Use only in a chemical fume hood.
Do not breathe vapor.
Do not get in eyes,on skin,on clothing.
Avoid prolonged or repeated exposure.
Corrosive.
Harmful liquid.

9.PHYSICAL AND CHEMICAL PROPERTIES

Physical properties

Flashpoint, °C	≥150
Melting point, °C	-50
Boiling point, °C	393
Vapor pressure, mmHg	3E-7 (25°C)
Vapor density (air=1)	11.46
Density	0.9736—0.9756 g/cm ³ (20°C)
Acid value (mg KOH/g)	159—189
Phase separation speed(S)	≤100
Chroma (Pt—Co)	≤100
Viscosityμ ²⁰ CPS	42±3
Refractive index	1.4434—1.4444 (20°C)

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10. STABILITY AND REACTIVITY

Incompatibilities

Strong oxidizing agents

Strong bases

Hazardous combustion or decomposition products

Carbon monoxide, carbon dioxide

Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine.

11. TOXICOLOGICAL INFORMATION

Acute effects

Harmful if swallowed, inhaled, or absorbed through skin.

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin.

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Chronic effects

Carcinogen.

Rtecs # : TB787500

Phosphoric acid, Bis(2-ethylhexyl) ester

Irritation data

SKN-RBT 500mg open mod	UCDS** 5/18/1972
SKN-RBT 5mg/24h sev	85JCAE -, 1130, 1986
EYE-RBT 5mg mod	UCDS** 5/18/1972
EYE-RBT 250ug/24h sev	85JCAE -, 1130, 1986

Toxicity data

ORL-RAT LD50:4940 UL/KG	UCDS** 5/18/1972
IPR-RAT LD50:50MG/KG	HYDRDA 3,201, 1978
SKN-RBT LD50:1250 UL/KG	UCDS** 5/18/1972

Targent organ data

Liver (other changes)

Only selected registry of toxic effects of chemical substances (rtecs) data is presented here. See actual entry in rtecs for complete information.

12. ECOLOGICAL INFORMATION

Date not yet available.

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13.DISPOSAL CONSIDERATIONS

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal,state and local environmental regulations.

14.TRANSPORT INFORMATION

Proper shipping name: Di(2-ethylhexyl) phosphoric acid

Classification data:

UN No.: 1902

Packing code: III

Transport class: 8

15.REGULATORY INFORMATION

European information

Corrosive

R 34	Causes burns
R 20/21/22	Harmful by inhalation,in contact with skin and if swallowed.
S 26	In case of contact with eyes,rinse immediately with plenty of water and seek medical advice.
S 36/37/39	Wear suitable protective clothing,gloves and eye/face protection.
S 23	Do not breathe vapor.

Reviews,standards,and regulations

Epa tsca section 8 (B) chemical inventory.

Epa tsca section 8 (D) unpublished health/safety studies.

Epa tsca test submission (tscats) data base,January 2001.

16.OTHER INFORMATION

SDS Date/Revised: 1/1/2016

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