



# Safety Data Sheet

(2-Phenoxyethanol)

DATE PREPARED: 12/17/2013

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## Section 1 – Company Information

### Parchem - fine & specialty chemicals

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### EMERGENCY RESPONSE NUMBER:

CHEMTEL - Parchem CCN# M1S0007152

Toll Free US & Canada: (800)255-3924

All other Origins: (813) 248-0585

Collect Calls Accepted

## Section 2 – Product Identification/ Information on Ingredients

PRODUCT NAME 2-Phenoxyethanol

PRODUCT	CAS NUMBER	% BY WEIGHT
2-Phenoxyethanol	122-99-6	99.0 – 100.0%

## Section 3 – Hazards Identification

**Warning:** Causes eye irritation. MAY CAUSE SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. INGESTION MAY CAUSE GASTRIC DISTURBANCES. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapors. Use with local exhaust ventilation. Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator. Wear NIOSH-certified chemical goggles. Wear protective clothing. Wear chemical resistant protective gloves. Eye wash fountains must be easily accessible.

**State of Matter:** Liquid

**Color:** Colorless

**Odor:** Faint specific odor

### Potential Health Effects

**Primary Routes of Exposure:** Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

**Irritation/Corrosion:** Not irritating to the skin. Eye contact causes irritation.

**Sensitization:** Skin sensitizing effects were not observed in animal studies.

### Chronic Toxicity

**Carcinogenicity:** No data available concerning carcinogenic effects.

**Reproductive Toxicity:** The results of animal studies gave no indication of a fertility impairing effect.

**Teratogenicity:** Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

**Genotoxicity:** The substance was not mutagenic in bacteria. No mutagenic effect was found in various tests with mammalian cell culture and mammals.



**Signs and Symptoms of Overexposure:** Overexposure may cause: vomiting, lethargy, giddiness, nausea, coughing, headache.

#### **Potential Environmental Effects**

**Aquatic Toxicity:** There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

#### Section 4 – First Aid Measures

**General Advice:** Remove contaminated clothing.

**If Inhaled:** Remove the affected individual into fresh air and keep the person calm. Seek medical attention.

**If on Skin:** Wash thoroughly with soap and water. If irritation develops, seek medical attention.

**If in Eyes:** Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

**If Swallowed:** Immediately rinse mouth and then drink plenty of water, DO NOT INDUCE VOMITING, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

#### **Note to Physician**

**Treatment:** Treat according to symptoms (decontamination, vital functions), no known specific antidote.

#### Section 5 – Fire Fighting Measures

**Flash Point:** 126°C

**Autoignition:** 475°C

**Lower Explosion Limit:** 1.4 % vol.

**Upper Explosion Limit:** 9.0% vol.

**Flammability:** Does not ignite

**Self-Ignition Temperature:** Based on its structural properties the product is not classified as self-igniting.

**Suitable Extinguishing Media:** Water spray, dry powder, foam

**Hazards during Fire-Fighting:** Harmful vapors. Evolution of fumes/fog. The substances / groups of substances mentioned can be released in case of fire. Vapors may form explosive mixture with air.

**Protective Equipment for Fire-Fighting:** Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further Information:** The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

**Impact Sensitivity:** Remarks: based on the chemical structure there is no shock-sensitivity.

## Section 6 – Accidental Release Measures

**Personal Precautions:** Use personal protective clothing. Information regarding personal protective measures see, chapter 8.

**Environmental Precautions:** Do not discharge into drains/surface waters/groundwater.

**Cleanup:** Place absorbed material in the same container as the spilled substance/product for disposal. For small amounts: pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations.

For large amounts: pump off product.

**Further Information:** High risk of slipping due to leakage/spillage of product.

## Section 7 – Handling & Storage

### Handling

**General Advice:** Prevent contact with air/oxygen (formation of peroxide). No special measures necessary provided product is used correctly.

**Protection against Fire and Explosion:** Prevent electrostatic charge. Sources of ignition should be kept well clear. Fire extinguishers should be kept handy.

### Storage

**General Advice:** Keep container tightly closed in a cool, well-ventilated place. Keep under nitrogen. Protect from atmospheric humidity.

**Storage Incompatibility:** Segregate from foodstuffs.

**Storage Stability:** No data available

## Section 8 – Exposure Controls & Personal Protection

**Advice on System Design:** All ventilation methods taken should correspond to the processing conditions.

### Personal Protective Equipment

**Respiratory Protection:** Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosol dust is formed.

**Hand Protection:** Chemical resistant protective gloves

**Eye Protection:** Tightly fitting safety goggles (chemical goggles) and face shield.

**Body Protection:** Light protective clothing

**General Safety and Hygiene Measures:** Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin and eyes. Remove contaminated clothing.

## Section 9 – Physical & Chemical Properties

**Form:** Liquid  
**Odor:** Faint specific odor  
**Color:** Colorless  
**pH Value:** 7 (20°C)  
**Melting Point:** 9.1°C (1013 hPa)  
**Boiling Point:** 244.3°C  
**Decomposition Point:** > 350°C  
**Vapor Pressure:** 0.01 hPa (20°C)  
**Density:** 1.11 g/cm<sup>3</sup>(20°C)  
**Relative Density:** 1.11(20°C)  
**Vapor Density:** Heavier than air  
**Partitioning Coefficient n-Octanol/Water (log Pow):** 1.2 (23°C)  
**Viscosity, Dynamic:** 41 mPa.s (19.8°C), 19 mPa.s (40.5°C)  
**Particle Size:** N/A  
**Solubility in Water:** 24 g/L (20°C)

## Section 10 – Stability & Reactivity Data

**Conditions to Avoid:** Avoid contact with air. Avoid moisture. Avoid heat.  
**Substances to Avoid:** Strong oxidizing agents  
**Hazardous Reactions:** The product is stable if stored and handled as prescribed/indicated. May form explosive peroxides when exposed to air. Substance/product can form explosive mixture with air.  
**Decomposition Products:** Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.  
**Corrosion to Metals:** No corrosive effect on metal.  
**Oxidizing Properties:** Based on its structural properties the product is not classified as oxidizing.

## Section 11 – Toxicological Information

### Acute Toxicity

#### Oral

**Type of Value:** LDS50

**Species:** Rat

**Value:** 2,740 mg/kg (BASF-Test)

The European Union (EU) has classified this substance as 'harmful'.

### Inhalation

**Species:** Rat

**Value:** (IRT)

**Exposure Time:** 8 h

No mortality within the stated exposition time as shown in animal studies.

### Dermal

**Type of Value:** LD50

**Species:** Rabbit

**Value:** 5000 mg/kg

### Irritation/Corrosion

#### Skin

**Species:** Rabbit

**Result:** Non-irritant

**Method:** OECD Guideline 404

#### Eye

**Species:** Rabbit

**Result:** Irritant.

**Method:** OECD Guideline 405

### Sensitization

Guinea pig maximization test

**Species:** Guinea pig

**Result:** Non-sensitizing.

**Method:** OECD Guideline 406

## Section 12 – Ecological Information

### Fish

**Acute:** Flow through.

**Pimephales promelas/LC50 (96 h):** 344 mg/L

The statement of the toxic effect relates to the analytically determined concentration.

**Chronic:** OECD Guideline draft Flow through.

**Pimephales promelas /NOEC (34 d):** 23 mg/L

Nominal concentration.

### Aquatic Invertebrates

**Acute:** EC50 (48 h): > 500 mg/L

**Chronic:** OECD Guideline 211 semistatic Daphnia magna ( NOEC) 21 d 9.43 mg/L

The statement of the toxic effect relates to the analytically determined concentration.



### **Aquatic Plants**

**Toxicity to Aquatic Plants:** DIN 38412 Part 9 static

**Green Algae/EC50 (72 h):** > 500 mg/l

Nominal concentration.

### **Microorganisms**

**Toxicity to Microorganisms:** DIN EN ISO 8192-0ECD 209-881302/EEC,P. C Aquatic

**Activated Sludge, Domestic/EC20 (30 min):** approx. 620 mg/L

Nominal concentration.

DIN 38412 Part 8 aquatic

**Bacterium/EC10 (17 h):** 320 mg/L

Nominal concentration.

### **Plant**

**Toxicity to Terrestrial Plants:** OECD Guideline 208 rape/EC50 (19 d): 34 mg/L

### **Soil Living Organisms**

**Toxicity to Soil Dwelling Organisms:** OECD Guideline 207 artificial soli

**Eisenia foetida/LC50 (14 d):** 1,000 mg/kg

**OECD 217 Soil Dwelling Microorganisms/other (7 d):** 147 mg/kg

### **Degradability / Persistence**

#### **Biological/ Abiological Degradation**

**Test Method:** OECD 301 A {new version} (aerobic), activated sludge, domestic

**Method of Analysis:** DOC reduction

**Degree of Elimination:** 90 - 100 % (15 d)

**Evaluation:** Readily biodegradable (according to OECD criteria).

**Bioaccumulation:** No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

**Other Adverse Effects:** Do not release untreated into natural waters.

### Section 13 – Disposal Consideration

Dispose of product and contaminated packaging in accordance with all local, state and federal environmental control regulations.



Section 14 – Transportation Data

**Land Transport**

**US DOT:** Not classified as a dangerous good under transport regulations

**Sea Transport**

**IMDG:** Not classified as a dangerous good under transport regulations

**Air Transport**

**IATA/ICAO:** Not classified as a dangerous good under transport regulations

Section 15 – Regulatory Information

**Federal Regulations**

**Registration Status:** Chemical TSCA, US released / listed

**OSHA Hazard Category:** Acute target organ effects reported; Skin and/or eye irritant

**EPCRA 311/312 (Hazard Categories):** Acute

**EPCRA 313**

**CAS Number:** 122-99-6

**Chemical Name:** 2-Phenoxyethanol

**State Regulations**

**State RTK:** NJ, PA

**CAS Number:** 122-99-6

**Chemical Name:** 2-Phenoxyethanol

**NFPA Hazard Codes**

**Health:** 2

**Fire:** 1

**Reactivity:** 0

**Special:** N/A

**HMIS Rating**

**Health:** 2

**Flammability:** 1

**Physical Hazard:** 0



Section 16 – Other Information

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

