

Safety Data Sheet



SECTION 1: Identification of the substance/mixture and the company/undertaking

1.1 Production identifiers

Product name : PROTECTOL PE
Brand : CJ Chemicals LLC

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

Identified uses : Laboratory chemicals, synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : CJ Chemicals LLC
3469 E Grand River Rd #112
Howell, MI 48843
United States

Telephone : +1 (888) 274-1044

1.4 Emergency Telephone

Emergency Phone # : 1-800-424-9300 CHEMTREC (USA)
1-703-527-3887 CHEMTREC (international) 24 hours/day; 7 days/week

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
122-99-6	>= 99.0 - <= 100.0 %	2-Phenoxyethanol

3. Hazard identification

Emergency overview

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/vapours.
Use with local exhaust ventilation.
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.
Wear NIOSH-certified chemical goggles.
Wear protective clothing.
Wear chemical resistant protective gloves.
Eye wash fountains must be easily accessible.

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 liquified gases.

4. First-aid measures

General advice:

Remove contaminated clothing.

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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:

Immediately 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.

5. Fire-fighting measures

Flash point:	approx. 120 °C	(DIN 51758)
Autoignition:	> 200 °C	(DIN 51794)
Lower explosion limit:	1.4 %(V)	
Upper explosion limit:	9.0 %(V)	

Suitable extinguishing media:

water, dry extinguishing media, foam

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

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.

NFPA Hazard codes:

Health : 2 Fire: 1 Reactivity: 0 Special:

6. Accidental release measures

Personal precautions:

Use personal protective clothing.

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:

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High risk of slipping due to leakage/spillage of product.

7. Handling and storage

Handling

General advice:

Prevent contact with air/oxygen (formation of peroxide).

Protection against fire and explosion:

Take precautionary measures against static discharges.

Storage

General advice:

Containers should be stored tightly sealed in a dry place.

Storage incompatibility:

General: Segregate from foodstuffs.

Storage stability:

May form explosive peroxides.

Temperature tolerance

Protect from temperatures below: 15 °C

Characteristics of the product are reversibly changed when falling below the limit temperature.

8. Exposure controls and 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 aerosols/dust are 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.

9. Physical and chemical properties

Form:	liquid
Odour:	faint specific odour
Colour:	colourless
pH value:	7 (20 °C)

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solidification temperature:	13 °C	
boiling temperature:	245 °C	(DIN 53171)
Vapour pressure:	0.1 hPa	(20 °C)
Density:	1.11 g/cm ³	(20 °C)
Partitioning coefficient n-octanol/water (log Pow):	1.16	
Viscosity, dynamic:	30 mPa.s	(20 °C)
Solubility in water:	24 g/l	(20 °C)

10. Stability and reactivity

Conditions to avoid:

Avoid contact with air. Avoid moisture. Avoid heat.

Substances to avoid:

strong oxidizing agents

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Corrosion to metals:

No corrosive effect on metal.

11. Toxicological information

Acute toxicity

Oral:

LD50/rat: > 2,000 mg/kg

Inhalation:

rat: / 8 h(IRT)

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

Dermal:

LD50/rabbit: > 2,000 mg/kg

Skin irritation:

rabbit: non-irritant (OECD Guideline 404)

Eye irritation :

rabbit: Irritant. (OECD Guideline 405)

Sensitization:

Guinea pig maximization test/guinea pig: Non-sensitizing. (OECD Guideline 406)

12. Ecological information

Environmental fate and transport

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Biodegradation:

Test method: OECD 301 A (new version)
Degree of elimination: 90 - 100 % (15 d)
Evaluation: Readily biodegradable (according to OECD criteria).

Environmental toxicity

Acute and prolonged toxicity to fish:

golden orfe/LC50 (96 h): > 100 mg/l

Acute toxicity to aquatic invertebrates:

EC50 (48 h): > 500 mg/l

Toxicity to aquatic plants:

EC50 (72 h): > 500 mg/l

Toxicity to microorganisms:

DIN 38412 Part 8 EC10 (17 h): 320 mg/l

OECD Guideline 209 activated sludge, industrial/EC20: > 100 mg/l

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Other ecotoxicological advice:

Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:

It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA. Dispose of in accordance with national, state and local regulations.

Container disposal:

Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Dispose of in accordance with national, state and local regulations.

14. Transport information

Land transport

USDOT

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

15. Regulatory information

Federal Regulations

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Registration status:

TSCA, US released / listed

OSHA hazard category: Acute target organ effects reported, Skin and/or eye irritant

SARA hazard categories (EPCRA 311/312): Acute

SARA 313:

CAS Number

122-99-6

Chemical name

2-Phenoxyethanol

State regulations

State RTK

CAS Number

122-99-6

Chemical name

2-Phenoxyethanol

State RTK

NJ, PA

16. Other information

HMIS III rating

Health: 2 Flammability: 1 Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

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