

Material Safety Data Sheet

SECTION 1: CHEMICAL IDENTIFICATION

Chemical Name: Benzene phosphorus oxydichloride

Trade name: BPOD

For emergency in USA please call CHEMTREC (1-800 424-9300)
For emergency in Europe please call 3E 001-760-476-3961 (Estar Code:333-479)

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 824-72-6

EC NO: 212-534-3

Synonyms: Phenylphosphonic dichloride; Dichlorophenylphosphine oxide

Hazard Symbols: C

Risk Phrases: 14 34 37

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Reacts violently with water. Causes burn. Irritating to respiratory system. Moisture sensitive.

Potential Health Effects:

Eye: Causes eye burns. May result in corneal injury.

Skin: Causes skin burns.

Ingestion: Causes gastrointestinal tract burns.

Inhalation: Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. May cause burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Chronic: Not available.

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately.

Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

SECTION 5: FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (Approved or equivalent), and full protective gear. Reacts violently with water.
Extinguishing Media: DO NOT USE WATER! Use dry chemical, CO₂, or halogenated agents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches, which lead to waterways. Do not get water on spilled substances or inside containers.

SECTION 7: HANDLING AND STORAGE

Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes: Wear chemical goggles and face shield.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS

Physical State: Clear liquid

Appearance: yellow to brown

Odor: pungent odor

Boiling Point: 258 deg C @760mmHg

Freezing/Melting Point: 3 deg C

Flash Point: 204 deg C (399.20 deg F)

Decomposition Temperature:

Solubility in water: Reacts.

Specific Gravity/Density: 1.3900g/cm³

Molecular Formula: C₆H₅Cl₂OP

Molecular Weight: 94.98

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, exposure to moist air or water.

Incompatibilities with Other Materials:

Water, strong oxidizing agents, strong bases, amines, alcohols, metals.
Hazardous Decomposition Products:
Hydrogen chloride, nitrogen oxides, carbon monoxide, oxides of phosphorus, carbon dioxide.
Hazardous Polymerization:
Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 824-72-6 unlisted.
LD50/LC50:
Not available.
Carcinogenicity:
Phenylphosphonic dichloride - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

SECTION 12: ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13: DISPOSAL CONSIDERATION

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14: TRANSPORT INFORMATION

Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
UN No.: 3265
Hazard Class: 8
Packing Group: II

SECTION 15: REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: C
Risk Phrases: R 14 Reacts violently with water.
R 34 Causes burns.
R 37 Irritating to respiratory system.
Safety Phrases:
S 8 Keep container dry.
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 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
WGK (Water Danger/Protection)
CAS# 824-72-6: 3
United Kingdom Occupational Exposure Limits
Canada
CAS# 824-72-6 is listed on Canada's DSL List.
CAS# 824-72-6 is not listed on Canada's Ingredient Disclosure List.
Exposure Limits
US FEDERAL

TSCA
CAS# 824-72-6 is listed on the TSCA inventory.

SECTION 16: OTHER INFORMATION

Disclaimer

This information has been compiled on the basis of our experience and to the best of our knowledge. It is only intended to be of assistance to the user and must not be understood as a guarantee. No responsibility for the losses or damages that may arise through the use of the product is therefore accepted. Nothing should be construed as a recommendation or inducement to infringe any patent.