# Safety Data Sheet
## PT 250 PROPOXUR



## 1. Product and Company Identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

Registrant:
Whitmire Micro-Gen Research Laboratories, Inc.
3568 Tree Court Industrial Blvd.
St. Louis, MO 63122

| | |
|---|---|
| Substance number: | 000000397440 |
| Chemical family: | organophosphates |
| Synonyms: | Propoxur |

## 2. Hazards Identification

**Emergency overview**

CAUTION:
KEEP OUT OF REACH OF CHILDREN.
KEEP OUT OF REACH OF DOMESTIC ANIMALS.
HARMFUL IF SWALLOWED.
HARMFUL IF INHALED.
HARMFUL IF ABSORBED THROUGH SKIN.
Moderately irritating to the eyes.
Avoid contact with the skin, eyes and clothing.
Avoid inhalation of mists/vapours.
Wash thoroughly after handling.
Flammable Liquid
Aerosol container contains flammable gas under pressure.

See Product Label for additional precautionary statements.

State of matter: liquid
Colour: clear
Odour: of isopropanol

**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.

**Acute toxicity:**

Slightly toxic after single ingestion. Relatively nontoxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

**Irritation / corrosion:**
May cause slight but temporary irritation to the eyes. May cause moderate irritation to the skin.

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

**Signs and symptoms of overexposure:**
inhibition of cholinesterase
weakness, muscular spasms, twitching, headache, tightness in the chest, difficulty breathing, shortness of breath, chest discomfort, disturbance of vision, nonreactive pinpoint pupils, salivation, nausea, vomiting, diarrhea, abdominal cramps, urination, perspiration
Risk of decrease in cholinesterase activity. If poisoning is probable, treat the patient immediately. Treatment should be given simultaneously with decontamination procedures in severe cases. Proceed concurrently with decontamination using proper protective gear; for example, chemical resistant gloves (neoprene or nitrile) rather than cotton or leather gloves.

## 3. Composition / Information on Ingredients

| CAS Number | Content (W/W) | Chemical name |
|---|---|---|
| 114-26-1 | 1.0 % | Propoxur |
| 67-63-0 | | 2-Propanol |
| 64742-47-8 | >= 10.0 % | Distillates (petroleum), hydrotreated light |
| | >= 85.0 % | Proprietary ingredients |

## 4. First-Aid Measures

**General advice:**
First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

**If inhaled:**
Remove the affected individual into fresh air and keep the person calm.

**If on skin:**
Rinse skin immediately with plenty of water for 15 - 20 minutes.

**If in eyes:**
Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

**If swallowed:**
Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

**Note to physician**

| | |
|---|---|
| Antidote: | Administer atropine. Pralidoxime chloride (2-PAM) is antidotal when administered early, and in conjunction with antidote. |
| Treatment: | Pralidoxime chloride (2-PAM, PROTOPAM chloride) may be effective as an adjunct to atropine. Use according to label directions. Before administering pralidoxime chloride, obtain a blood sample for cholinesterase analysis. Adjusting for age and weight, pralidoxime may be administered as a continuous infusion after a loading dose or using a bolus method. Clear airway and provide oxygen before administering atropine. Tissue oxygenation should be improved as much as possible before administering atropine, so as to minimize the risk of arrhythmia. Give atropine intravenously (IV), or if not immediately possible IV, |

through an alternative route such as an endotracheal tube or intramuscularly (IM). Give atropine intramuscularly or intravenously, depending on severity of poisoning. Atropine may be administered through an alternative route such as an endotracheal tube. Avoid opiates, parasympthomimetic agents (e.g. succinylcholine), theophylline, reserpine and or phenothiazines. The dosage for atropine is as follows: 1 to 2 mg/kg initially IV in adults (or 0.05 mg/kg in children under 12 years) then give appropriate doses every 15 minutes until excessive secretions and sweating have been controlled. Use soap (preferably Tincture Green Soap) and water or dilute hypochlorite solution for decontaminating skin. Suction oral secretions and emesis to avoid aspiration. Artificial respiration or oxygen administration may be necessary. Observe patient continuously for at least 72 hours. Allow no further exposure to any cholinesterase inhibitor until cholinesterase regeneration has taken place as determined by blood tests.

## 5. Fire-Fighting Measures

Flash point: not determined
NFPA 30B flammability: Level 3 aerosol.

**Suitable extinguishing media:**
foam, dry extinguishing media, carbon dioxide

**Hazards during fire-fighting:**
carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, methyl isocyanate, methylamine, toxic gases/vapours
The substances/groups of substances mentioned can be released in case of fire. Aerosol container contains flammable gas under pressure. Risk of explosion at excessive temperatures.

**Protective equipment for fire-fighting:**
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further information:**
Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

## 6. Accidental release measures

**Personal precautions:**
Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

**Environmental precautions:**
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities. This product is regulated by CERCLA ('Superfund').

**Cleanup:**
Dike spillage. Pick up with suitable absorbent material. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

## 7. Handling and Storage

**Handling**

**General advice:**
RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect against heat. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Provide means for controlling leaks and spills. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

**Protection against fire and explosion:**
Aerosol container contains flammable gas under pressure. The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme heat. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

**Storage**

**General advice:**
Protect containers from physical damage. Store in a cool, dry, well-ventilated area. Avoid all sources of ignition: heat, sparks, open flame.

**Storage incompatibility:**
General advice: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

**Storage stability:**
May be kept indefinitely if stored properly. If an expiry date is mentioned on the packaging/label this takes priority over the statements on storage duration in this safety data sheet.

**Temperature tolerance**
Protect from temperatures above: 130 °F
Explosive at or above indicated temperature.

## 8. Exposure Controls and Personal Protection

**Users of a pesticidal product should refer to the product label for personal protective equipment requirements.**

**Components with workplace control parameters**

| | | |
|---|---|---|
| Distillates (petroleum), hydrotreated light | ACGIH | TWA value 200 mg/m3 Non-aerosol (total hydrocarbon vapor);<br>Application restricted to conditions in which there are negligible aerosol exposures.<br>Skin Designation Non-aerosol (total hydrocarbon vapor);<br>The substance can be absorbed through the skin. |
| 2-Propanol | OSHA | PEL 400 ppm 980 mg/m3 ; |
| | ACGIH | TWA value 200 ppm ; STEL value 400 ppm ; |
| Propoxur | | |
| | ACGIH | TWA value 0.5 mg/m3 ; |

**Advice on system design:**
Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

**Personal protective equipment**

**RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

**Respiratory protection:**
Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

**Hand protection:**
Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

**Eye protection:**
Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

**Body protection:**
Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

**General safety and hygiene measures:**
RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS
Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

| | | |
|---|---|---|
| Form: | liquid | |
| Odour: | of isopropanol | |
| Colour: | clear | |
| pH value: | approx. 7.1 | ( 1 g/l, 23 °C) |
| Vapour pressure: | | The product has not been tested. The statement has been derived from the properties of the individual components. |
| *Information on: 2-Propanol* | | |
| Vapour pressure: | 23.6 hPa | ( 50 °C) |
| *Information on:* | | |
| Vapour pressure: | 57258 hPa | ( 20 °C) (measured) Literature data. |
| *Information on: Distillates (petroleum), hydrotreated light;* | | |
| Vapour pressure: | 4 hPa | ( 50 °C) |
| --- | | |
| Density: | 0.793 g/cm3 | ( 20 °C) |
| Viscosity, dynamic: | 1.92 mPa.s | ( 23 °C) |
| Solubility in water: | | slightly soluble, Information based on the main components. |

## 10. Stability and Reactivity

**Conditions to avoid:**
Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge.

**Substances to avoid:**
caustics, amines, alkanolamine, aldehydes, strong oxidizing agents, chlorinated products

**Hazardous reactions:**
The product is chemically stable.

**Decomposition products:**
No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

**Thermal decomposition:**
Possible thermal decomposition products:
carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, methyl isocyanate, methylamine
Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.

**Corrosion to metals:**
Corrosive effects to metal are not anticipated.

## 11. Toxicological information

**Acute toxicity**

**Oral:**
Type of value: LD50
Species: rat
Value: > 500 - < 5,000 mg/kg

**Inhalation:**
Type of value: LC50
Species: rat
Value: > 2.11 mg/l

**Dermal:**
Type of value: LD50
Species: rat
Value: > 5,000 mg/kg

**Irritation / corrosion**

**Skin:**
Species: rabbit
Result: Irritant.

**Eye:**
Species: rabbit
Result: Slightly irritating.
May cause slight irritation to the eyes.

**Sensitization:**

Species: rabbit
Result: Skin sensitizing effects were not observed in animal studies.

**Genetic toxicity**

*Information on: Propoxur*
*Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.*

*Information on: 2-Propanol*

*In the majority of studies performed with microorganisms and in mammalian cell culture, a mutagenic effect was not found. A mutagenic effect was also not observed in in vivo tests.*

*Information on: Distillates (petroleum), hydrotreated light*
*In the majority of tests performed (bacteria/microorganisms/cell cultures) a mutagenic effect was not found. A mutagenic effect was also not observed in in-vivo assays. Literature data.*
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**Carcinogenicity**

*Information on: Propoxur*
*The US EPA has classified this substance with the rating of 'B', probable human carcinogen.*
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**Reproductive toxicity**

*Information on: Propoxur*
*No reproductive toxic effects reported.*
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**Development:**

*Information on: Propoxur*
*No indications of a developmental toxic / teratogenic effect were seen in animal studies.*
*Information on: 2-Propanol*
*Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.*
*Information on: Distillates (petroleum), hydrotreated light*
*No indications of a developmental toxic / teratogenic effect were seen in animal studies. Literature data.*
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## 12. Ecological Information

**Fish**

*Information on: Propoxur*
*Acute:*
*Oncorhynchus mykiss/LC50 (96 h): 3.7 mg/l*

*Information on: 2-Propanol*
*Acute:*
*EPA 72-1 Flow through.*
*Pimephales promelas/LC50 (96 h): 9,640 mg/l*
*Literature data.*

*Information on: Distillates (petroleum), hydrotreated light*
*Acute:*
*Brachydanio rerio/LC50 (96 h): 7.3 mg/l*
*The product has not been tested. The statement has been derived from products of a similar structure and composition. Literature data.*
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**Aquatic invertebrates**

*Information on: Propoxur*
*Acute:*
*Daphnia magna/EC50 (48 h): 0.15 mg/l*

*Information on: 2-Propanol*
*Acute:*
*static*
*Daphnia magna/EC50 (24 h): > 10,000 mg/l*

*Nominal concentration. Literature data.*

*Information on: Distillates (petroleum), hydrotreated light*
*Acute:*
*Daphnia magna/EL50 (48 h): 1.4 - 21 mg/l*
*The product has not been tested. The statement has been derived from products of a similar structure and composition. Literature data.*
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**Aquatic plants**

*Information on: Propoxur*
*Toxicity to aquatic plants:*
*green algae (72 h): 22 mg/l*

*Information on: 2-Propanol*
*Toxicity to aquatic plants:*
*DIN 38412 Part 9 static*
*green algae/Toxic limit concentration (8 d): 1,800 mg/l*
*Nominal concentration. Literature data.*

*Information on: Distillates (petroleum), hydrotreated light*
*Toxicity to aquatic plants:*
*algae/EC50 (72 h): 3.7 - 8.3 mg/l*
*Literature data.*
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## 13. Disposal considerations

**Waste disposal of substance:**
Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container disposal:**
Do not cut, puncture, crush, or incinerate empty aerosol containers. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Empty aerosol cans may meet the definition of RCRA D003. Consult local and/or regional EPA for further guidance.

## 14. Transport Information

Reference Bill of Lading

## 15. Regulatory Information

**Federal Regulations**

**Registration status:**

| | | |
|---|---|---|
| Chemical | TSCA, US | blocked / not listed |
| Crop Protection | TSCA, US | released / exempt |

**EPCRA 311/312 (Hazard categories):** Acute; Chronic; Fire; Sudden release of pressure

| CERCLA RQ | CAS Number | Chemical name |
|---|---|---|
| 100 LBS | 114-26-1 | Propoxur |

**State regulations**

| State RTK | CAS Number | Chemical name |
|---|---|---|
| MA, NJ, PA | 114-26-1 | Propoxur |
| MA, NJ, PA | 67-63-0 | 2-Propanol |

**CA Prop. 65:**
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

| CAS Number | Chemical name |
|---|---|
| 114-26-1 | Propoxur |

## 16. Other Information

### Refer to product label for EPA registration number.

Recommended use: insecticide

BASF supports worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

**Local Contact Information**
Product Stewardship
919 547-2000

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