
MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL NATURE

PRODUCT : Bugstop Pro.
CHEMICAL NAME (A.I.) : Propoxur 1%
CHEMICAL FAMILY : Carbamate Insecticide.
CHEMICAL FORMULA : C₁₁ H₁₅NO₃
MOLECULAR WEIGHT : 209.2

SECTION 2 – COMPOSITION, INFORMATION OF INGREDIENTS COMPONENT

Chemical Name	Percent Purity	CAS NO.
Propoxur	1.0%	114-26-1

SECTION 3 – HAZARDS IDENTIFICATION SUMMARY

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:**Physical state** Liquid**Color** Clear Colorless**GHS****Classification**Physical Hazards

Flammable Aerosols

Category 1

Gases under pressure

Compressed Gas

Health Hazard

Skin Corrosion/Irritation

Category 2

Reproductive Toxicity

Category 2

Specific target organ systemic toxicity (single exposure)

Category 3

Other hazards

None

LabelingSignal Word**DANGER****Emergency Overview:**

Caution keeps out of reach of children. Keep out of reach of domestic animals. Harmful if absorbed through skin. Harmful if inhaled. Moderately irritating to the eyes. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. Wash thoroughly after handling.

Potential Health Hazards:

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.

Acute toxicity: Slightly toxic after single ingestion. Slightly toxic after short-term skin contact. Slightly toxic after short term inhalation.

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

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

Signs and symptoms of overexposure : 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.

SECTION 4 – FIRST AID MEASURES

General Advise: 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 an ambulance, and 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.

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, and then continue rinsing.

Skin: Rinse skin immediately with plenty of water for 15 - 20 minutes.

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.

Inhalation: Remove the affected individual into fresh air and keep the person calm.

Note to physician

Antidote: Administer atropine. Pralidoxime chloride (2-PAM) is antidotal when administered early, and in conjunction with antidote. Administer intravenously or intramuscularly if intravenous injection is not possible. Recommended dosage for adult and children above 1 year is 0.4-2.0mg repeated every 15 minutes until full atropinisation is achieved. For children below 12 years 0.05mg/kg of body weight 2 PAM is contraindicated. Artificial respiration may be needed.

Treatment: Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media: Dry extinguishing media, water spray.

Hazards during fire-fighting: Carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, methyl isocyanine, methylamine, halogenated hydrocarbons, hydrocarbons If product is heated above

decomposition temperature, toxic vapors will be released. 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: Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterway.

SECTION 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 /fire water/firefighting water. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities.

Cleanup: 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.

SECTION 7 – HANDLING AND STORAGE

Handling

Keep away from open flames, hot surfaces and sources of ignition. Avoid breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.

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/vapors. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion: 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

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

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

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

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

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

Personal protective equipment:

Respiratory protection: Wear respiratory protection if ventilation is inadequate. Wear a well certified (or equivalent) organic vapor/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 face piece pressure demand self-contained breathing apparatus (SCBA) or a full face piece 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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES (Technical)

PHYSICAL DESCRIPTION	: Aerosol
MELTING POINT	: Approx. 87 °C
DENSITY	: Approx. 480 kg/m ³
WATER SOLUBILITY	: 1.8 g/l

SECTION 10 – STABILITY AND REACTIVITY

Conditions to avoid: Avoid all sources of ignition heat, sparks, and open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge. This product may form an explosive mixture if:

1. The dust is suspended in the atmosphere as a dust cloud.
2. The concentration of the dust is above the lower explosion limit (LEL).
3. The limiting oxygen concentration (LOC) is exceeded.

Substances to avoid: strong oxidizing agents, alkali

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 iso cyanate, methyl amine Stable at ambient temperature. If product is heated above decomposition temperature toxic vapors may be released. To avoid thermal decomposition, do not overheat.

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

SECTION 11- TOXICOLOGICAL INFORMATION (Technical)

Acute Toxicity

Oral

Type of value:LD50

Species:rat

Value: 1,795 mg/kg

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BUGSTOP PRO

-----	Inhalation	Type of value: LC50 Species: rat Value: > 0.85 mg/l Exposure time: 4 h
-----	Dermal	Type of value: LD50 Species: rabbit Value: > 2,000 mg/kg
Irritation / corrosion	Skin	Species: rabbit Result: non-irritant
-----	Eye	Species: rabbit Result: mildly irritating
----	Sensitization	Species: guinea pig Result: Skin sensitizing effects were not observed in animal studies.

Genetic toxicity: Information on: Propoxur Results from a number of mutagen city 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.

Carcinogenicity: Probable human carcinogen.

Reproductive toxicity: No reproductive toxic effects reported.

Development: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

SECTION 12- ECOLOGICAL INFORMATION

Fish toxicity:

Information on toxicity to fishes.

Propoxur
Oncorhynchus mykiss/LC50 (96 h): 3.7 mg/l

Aquatic invertebrates:

Information on toxicity to aquatic invertebrates.

Propoxur
Daphnia magna/EC50 (48 h): 0.15 mg/l

Aquatic plants:

Information on Toxicity to aquatic plants

Propoxur
Green algae (72 h): 22 mg/l

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal of substance: Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or instate 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 Regional Office for guidance.

Container disposal: Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal. Do not re-use empty containers.

SECTION 14- TRANSPORT INFORMATION

UN No. : UN1950

IMDG : UN proper shipping name : AEROSOLS
 Hazard Class : 2.1
 UN Number : UN1950
 Description : UN1950,
 AEROSOLS,
 FLAMMABLE, 2.1,
 LTD QTY

Packaging Class and Group :



Label :

SECTION 15 – MANUFACTURE’S/SUPPLIER’S DATA

Name of Firm: ULTIMA SEARCH

Mailing: Ultima Search
 9-10, Shree Krishna Commercial
 Centre, 6-Udyog Nagar, S V Road
 Goregaon (W), Mumbai – 110062
 India

Manufacturing Site: Ultima Search,
 51-B,Phase-I, GIDC
 Vapi Gujarat,- 396195

Tel. 0091 - 9909993851

Local Bodies Involved: Collector of Valsad, Gujarat, India

SECTION 16- DISCALIMER

The Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties, of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is however ensures that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold as the case may be by us. Ultima Search makes no warranty expressed or implied in respect of the adequacy of this document for any particular purpose.

Date: 26.04.2023