

**MATERIAL SAFETY DATA SHEET****PROPUNCH 404 : PROFENOFOS 40% EC + CYPERMETHRIN 4% E.C.****1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND SUPPLIER**

**PRODUCT NAME** : PROPUNCH 404

**CHEMICAL GROUP** : Profenofos: (RS)-(O-4-bromo-2-chlorophenyl O-ethyl S-propyl phosphorothioate) Uses Manufacturer  
Cypermethrin: (RS)- $\alpha$ -cyano-3-phenoxybenzyl (1RS, 3RS; 1RS, 3SR)-3-(2, 2- dichlorovinyl)-2, 2-dimethylcyclo propane carboxylate

**RECOMMEDED USE** : A liquid insecticide for agricultural use

**FORMULATION** : Emulsifiable Concentrate

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**MANUFACTURER ADDRESS** : Arbuda Agrochemicals Pvt Ltd  
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District- Sabarkantha, Gujarat - 383215

**2. COMPOSITION / INFORMATION ON INGRADIENTS**

<b>Chemical Name</b>	<b>CAS NO.</b>	<b>Percent or content (w/w)</b>
Profenofos a.i.	41198-08-7	40.00 %
Cypermethrin a.i.	52315-07-8	4.00 %
Other ingredients	---	56.00 %

**3. HAZARD IDENTIFICATION**

**Ingestion** : Harmful if swallowed & May cause lung damage.

**Skin contact** : Irritating to skin, May cause sensitization by skin contact.

**Eye contact** : Risk of serious damage to eyes.

**4. FIRST AID AND MEASURES**

- EYES** : Rinse eyes with clean water for several minutes and immediately call a physician.
- SKIN** : Wash with soap and water. Change to clean clothing. Scrub finger nails clean with soap and water. Seek medical attention if skin irritation occurs.
- INGESTION** : Repeatedly administer medicinal charcoal in a large quantity of water. NOTE: Never give anything by mouth to an unconscious person. Do not induce vomiting. If medical assistance is not readily available, and poisoning symptoms are severe, vomiting should be induced by tickling the finger on the back of the patient's throat
- INHALATION** : Remove to fresh air.
- NOTE TO PHYSICIAN** : Treat as a cholinesterase inhibitor.
- ANTIDOTE** : Atropine in addition oxime preparation such as toxogon in under medical supervision. Inject 2-4 mg Atropine Sulphate (for children 0.2 to 5 mg) i.v. or i.m. every 5 to 10 minutes until signs of atropinisation occurs. The patient must remain atropinised for a length of time (24 to 48 hours) to prevent subsequent poisoning due to delayed resorptions.

**5. FIRE FIGHTING MEASURES**

- Combustibility** : Yes
- Suitable Extinguishing Media** : Dry chemical extinguisher, foam, carbon dioxide or water spray (Do not use direct jet of water).
- Special Hazards during Fire Fighting** : Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.
- Protective Equipment for Fire Fighting** : Use self-contained breathing apparatus. Wear protective equipment.

**6. ACCIDENTAL RELEASE MEASURES**

Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8 “Exposure Controls/Personal Protection”.

Keep unprotected persons and animals out of area. Keep material out of lakes, streams, ponds, and sewer drains. Dike to confine the spill and absorb with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal.

To clean and neutralize spill area, tools and equipment, wash with a suitable solution of caustic or soda ash, and an appropriate alcohol (i.e., methanol, ethanol, or isopropanol).

Follow this by washing with a strong soap and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary. Dispose of drummed waste according to the method outlined in Section 13 “Disposal Considerations”.

**7. HANDLING AND STORAGE**

**HANDLING** : Avoid damage to containers. Do not handle damaged or leaking containers without protective equipment. Wash thoroughly after handling and before eating or smoking.

**STORING PRECAUTIONS** : Store in a cool, safe, place away from feed or food-stuffs. Do not store in warehouses where temperatures exceed 100°F for extended periods. Keep storage area free from ignition sources.  
**KEEP AWAY FROM CHILDRENS.**

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION.****PERSONAL PROTECTION**

**VENTILATION** : General air replacement or dilution ventilation is sufficient for material handling and storage but local ventilation should be used when removing this product from containers. Ventilate all transport vehicles prior to unloading.

**PERSONAL HYGIENE** : Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking or using tobacco. Shower at the end of the workday.

**WORK CLOTHING** : Depending upon concentrations encountered, wear coveralls or long sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover suit, such as rubber rain suit, Leather items such as shoes. Belts and watchbands that

becomes contaminated should be removed and hold destroyed.  
Launder all work clothing before refuse (separately from house laundry)

**RESPIRATORY PROTECTION** : For splash, mist, vapor or dust exposure wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization). Respirator use and selection must be based on airborne concentrations.

**EYE PROTECTION** : For splash, mist vapor or dust exposure wear chemical protective goggles as a face shield.

**GLOVES** : Wear chemical protective gloves made of materials such as rubber, Neoprene, or PVC. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT** : > 3000F  
**SPECIFIC GRAVITY** : 1.04 Percent  
**VOLATILE** : Not available Vapor  
**DENSITY** : (air=1)>3.5  
**EVAPORATION RATE** : (Not Available) Solubility in water. Product Emulsifier  
Reactivity in water : Hydrolyzes Malathion  
**SOLUBILITY IN WATER** : 148 mg/l @ 25 °C  
**APPEARANCE/ODOR** : Liquid with brownish tint, kerosene like odor.

## 10. STABILITY AND REACTIVITY

**STABILITY** : Slow decomposition above 120°F. Rapid decomposition above 100°C. Decomposition is dependent on time as well as temperature due to exothermic and autocatalytic reactions. The reactions involve rearrangements and polymerization releasing volatile and malodorous compounds such as dimethyl sulfide. Inappropriate storage may induce the formation of the more toxic and synergistic isomalathion.

**CONDITIONS TO AVOID** : Moisture and high temperatures. as well as temperature due to exothermic and autocatalytic reactions. The reactions involve rearrangements and polymerization releasing volatile and

malodorous compounds such as dimethylsulfide. Inappropriate storage may induce the formation of the more toxic and synergistic isomalathion.

- CONDITIONS TO AVOID** : Moisture and high temperatures.
- MATERIALS TO AVOID** : Strong alkalis, amines, and strong oxidizers Product can corrode iron, steel, tin plate, lead and copper.

### 11. TOXICOLOGICAL INFORMATION

- Route of Entry** : Ingestion, skin and inhalation.
- Ingestion** : LD50 oral (rat) >5500 mg/kg
- Skin** : LD50 dermal (rat) > 2000 mg/kg.
- Inhalation** : LC50 inhalation, rat, > 5.2 mg/l 4 hr
- Irritancy** : Slightly irritating to eyes & skin.  
Not a sensitizer to guinea pigs
- Carcinogenicity of Malathion** : IARC GROUP 3 Not classifiable as to carcinogenicity for humans.
- Malathion is not listed as a carcinogen by OSHA, IARC, NTP**

### 12. ECOLOGICAL INFORMATION

- Ecotoxicity effects** : Extremely toxic to fish and aquatic invertebrates. Highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply or allow drift to blooming crops or weeds if bees are visiting treatment area.
- Persistence and degradability** : Inherently biodegradable.
- Bioaccumulative potential** : Does not bioaccumulate.
- Mobility** : Water contaminating.
- Aquatic toxicity** : Toxic to fish and other water organisms.
- Additional ecological information** : Do not contaminate water sources when disposing of equipment wash waters. Do not apply directly to lakes, streams, or ponds.

**13. DISPOSAL CONSIDERATION**

**Steps To Be Taken If Spilled** : Eliminate ignition sources. Contain in smallest area by diking with absorbent material. Do not allow to enter sewer or drain. Provide ventilation or respiratory protection during clean up. Treat contaminated area with liquid bleach. Let stand for 15 minutes. Repeat procedure, then flush area with water. Wear protective clothing (section IX) during clean up

**Waste Disposal** : Absorb on clay or soda ash and place in waste disposal container. Dispose of absorbed material in accord with Federal, State, and local regulations.

**Note:** User should follow label instructions for disposal of unused product and container disposal.

**14. TRANSPORT INFORMATION**

Freight classification: Insecticides NOI O/T Poison NMFC 102120 Shipments of 12 x 8 oz, 12 x 1 Pt., 12 x 1 Qt, 4 x 1 Gal

Hazardous Material description on shipping papers: None. Case Marking: consumer commodity ORM-D2x2 ½ gal: Hazardous Material description on shipping papers and package marking Flammable Liquid NOS (Petroleum Naphtha), 3, UN 1993. PG III. Hazard Label Flammable liquid:

SARA TITLE III Malathion, CAS# 12175-5 Sec 304 CERCLA RQ 100 lb., Xylene Range Aromatics, CAS #1330-20-7 Sec 304, CERCLA RQ 1000 lb, Section 313, RCRA U239, D001 This information relates solely to the designated product and is not inclusive for combinations with other materials. This information is given without warranty or representation. Information is based on data we believe to be correct as of the date hereof. This information is furnished solely for your consideration, investigation, and verification. Before using any product READ THE LABEL.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

**15. REGULATORY INFORMATION**

EPA

EPA FIFRA INFORMATION: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemical. The hazard information required on the pesticide label is listed out below. The pesticide label also includes other important information, including directions for use.

- EPA/CERCLA Reportable Quantity: Malathion: (CAS: 121-75-5): 100 pounds

**SARA/TITLE III:**

- Section 302. Extremely Hazardous Substance Notification: This material is not known to contain any Extremely Hazardous Substances
- Section 311/312. Hazard Categories: Fire Hazard Immediate health hazard Chronic health hazard
- Section 313. (Toxic chemicals): Acute Malathion (CAS: 121-75-5)
- RCA Waste Code: Not applicable
- California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):
- This product is listed. Toxic Substances Control Act (TSCA):
- All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

**16. OTHER INFORMATION**

**MSDS PREPARATION DATE**                      **01/02/2024**

**REVISION DATE**                                **31/01/2026**

The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to Date information. The information given in this data sheet does not constitute or Replace the user's own assessment or work risk as required by other health and Safety legislation.