



SHREEJI PESTICIDES PVT. LTD  
(A SUBSIDIARY OF WILLOWOOD CHEMICALS PVT. LTD)

## Material safety data sheet

### Profenofos 40 + Cypermethrin 4% EC

#### 1. IDENTIFICATION OF COMPANY & PRODUCT

**Product Name** : Profenofos 40% + Cypermethrin 4%  
**Chemical Name** : **Profenofos:** (RS)-(O-4-bromo-2-chlorophenyl O-ethyl S-propyl phosphorothioate)  
**Cypermethrin:** (RS)- $\alpha$ -cyano-3-phenoxybenzyl (1RS, 3RS; 1RS, 3SR)-3-(2, 2-dichlorovinyl)-2, 2-dimethylcyclo propane carboxylate  
**Uses** : Insecticide  
**Manufacturer** : Shreeji Pesticides Pvt. Ltd.  
**Address** : Plot No. 69/P, Village - Manjusar, Taluka - Savli, Dist. Vadodara - 391775  
Gujarat, India :  
**Tele Fax Number** : 91 2667 264701

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Cas#	Percent or content (w/w)
Profenofos a.i.	41198-08-7	40.00 %
Cypermethrin a.i.	52315-07-8	4.00 %
Other ingredients	--	56.00 %

#### 3. HEALTH HAZARDS 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 MEASURES

**Eyes** : Rinse eyes with clean water for several minutes and immediately call a physician.  
**Skin** : Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.  
**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.



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<b>Inhalation</b>	remove to fresh air.
<b>Note to physician</b>	Treat as a cholinesterase inhibitor.
<b>Antidote</b>	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 sings 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

<b>Combustibility</b>	yes
<b>Suitable Extinguishing Media</b>	Dry chemical extinguisher, foam, carbon dioxide or water spray (Do not use direct jet of water).
<b>Special Hazards during Fire Fighting</b>	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.
<b>Protective Equipment for Fire Fighting</b>	Use self-contained breathing apparatus. Wear protective equipment.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Environmental Protection Measures following Accidents:

Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent material from spreading, e.g. by damming in with absorptive material. Collect material in specially marked, tightly closing containers.

Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers. Keep away from sources of ignition.

#### 7. HANDLING AND STORAGE

**Handling information** Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.



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**Special Instructions for Storage** Store the product in closed original containers. Protect from light and humidity. Storage depot protected against fire.

**Storage Compatibility with other Products** Store separate from food and feed.

**Storage Temperature** Max. Storage Temperature: 35°C Min. Storage Temperature: -10°C

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Breathing Protection** In case of heavy exposure, wear: Gas mask with universal filter.  
**Eye protection** Goggles or face-shield  
**Body Protection** Heavy duty cotton or synthetic fabric working clothes (e.g. overalls). Heavy-duty shoes or boots.  
**Hand Protection** Chemical-resistant gloves  
**Precautionary measures after work** Wash thoroughly (shower, bathe, wash hair). Change clothing. Thoroughly clean protective gear. Thoroughly clean contaminated equipment with soap or soda solution.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Clear liquid
Colour	Light brown to brown
Physical state	Liquid
Odour	Garlic like
Flash point	Above 35°C
Density	1.06 - 1.08 g/cm <sup>3</sup> (20°C)
pH	5.0 - 7.0 (1% Emulsion in water)
Miscibility with water	Miscible

#### 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under standard conditions.  
**Hazardous Polymerization** Will not occur.



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#### 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD <sub>50</sub> (rats) 800 mg/kg
Acute Dermal Toxicity	LD <sub>50</sub> (Rabbits) >4000 mg/kg b.w
Acute Inhalation	LC <sub>50</sub> (rats) : >5000 mg/m <sup>3</sup>
Eye Irritation	Rabbit: Highly irritant to eye
Skin Irritant	Rabbit: irritant to skin
Skin sensitization	Guinea pig: Non-sensitizer

#### 12. ECOLOGICAL INFORMATION

Very toxic to aquatic organisms. Acute fish toxicity LC<sub>50</sub> (96 h): Ca 0.02 mg/l

#### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Pay attention to protective clothing and measures. Cover up product with absorptive material such as sand, soil, diatomaceous earth, etc. Collect material in specially marked, tightly closing containers. Clean dirty areas with water and detergent. Put washing water in containers too, to avoid any contamination of surface and ground water, water supplies and drains. Hose down the area for a prolonged period. Heavily contaminated soil layers have to be dug out down to clean soil. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative and dispose of in an incinerator approved for chemicals.

**Container disposal method:** Dispose of empty containers in an incinerator approved for chemicals. Damaged containers: Place original containers in specially marked larger ones. Check possibilities of recycling large empty containers, drums and barrels.

#### 14. TRANSPORT INFORMATION

Rail/Road (RID/ADR)		
Proper Shipper Name	:	FLAMMABLE LIQUID, N.O.S.
Class	:	3
UN No.	:	1993
Packing Group	:	III
Sea (IMDG – Code)		



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Proper Shipper Name	:	FLAMMABLE LIQUID, N.O.S.
Class	:	3.3
UN No.	:	1993
Packing Group	:	III
<b>Air (ICAO/IATA)</b>		
Proper Shipper Name	:	FLAMMABLE LIQUID, N.O.S.
Class	:	3
UN No.	:	1993
Packing Group	:	III

**Packing Instructions:** Packing instructions on sea: P001 Packing instructions on air: Y309/310

#### 15. REGULATORY INFORMATION

EU- Classification Hazard Symbol	Xn	Harmful
Special Risks (R-Phrases)	10	Flammable
	22	Harmful if swallowed
	38	Irritating to eyes and skin.
	41	Risk of serious damage to eyes
	43	May cause sensitization by skin contact
Safety Advice (S- Phrases)	2	Keep out of the reach of children.
	13	Keep away from food, drink and animal feeding stuffs
	20/21	When using do not eat, drink or smoke.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	28	After contact with skin, wash immediately with plenty of water and soap
	36/37 /39	Wear suitable protective clothing, gloves and eye/face protection
	46	If swallowed, seek medical advice immediately and show this container or label.
	62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label
International WHO Toxicity Classification	II	Moderately hazardous



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### 16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.

