



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

Material safety data sheet Acephate 75% SP

1. IDENTIFICATION OF COMPANY & PRODUCT

Product Name : Acephate 75% SP
Chemical Name : (RS)-(O, S-dimethyl acetyl phosphoramidothioate) C₄H₁₀NO₃PS
Brand Name : ETHOPHATE
Users : Insecticide
Molecular Formula : C₄H₁₀NO₃PS
Manufacturer : **CROP LIFE SCIENCE LTD.**
Address : Plot No. 5165, 5166, 5151, G.I.D.C., Ankleshwar-393002
Gujarat, India
Tele Fax Number : 91 2646 238479

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Cas #	Percent Or Content(W/W)
Acephate a.i.	30560-19-1	75.00 %
Other ingredients	---	25.00 %

3. HEALTH HAZARDS IDENTIFICATION

Ingestion This product is slightly toxic when ingested. The degree of injury will depend on the amount of material ingested and the speed and thoroughness on the first aid treatment.

Inhalation This product is minimally toxic when inhaled. Exposure to high concentration of dust may result in respiratory irritation. Signs and symptom may include nasal discharge, sore throat, coughing and difficulty in breathing.

Eye irritation this product is expected to cause minimal or no eye irritation. The degree of injury will depend on the amount and duration of contact and the speed and thoroughness of the first aid treatment. Exposure may include redness and possibly some minor swelling.

Skin irritation this product is expected to cause brief and/or minor irritation. The degree of injury will depend on the amount and duration of contact and the speed of thoroughness of the first aid treatment. An exposure may include redness and possibly some minor swelling.



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4. FIRST AID MEASURES

Eyes	Hold eye open and rinse gently with fresh water for 15-20 minutes. If irritation persists, consult a medical Physician. Remove contact lenses if worn.
Skin	Take off contaminated clothing. Wash with soap and water. Rinse skin immediately with plenty of water for 15-20 minutes.
Ingestion	Drink 1 or 2 glasses of water or milk and induce vomiting or touching the back of the throat with a finger. If possible, contact a physician before inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person.
Inhalation	Move person to fresh air. Give artificial respiration if required and call ambulance.
Note to Physician	Acephate is a cholinesterase inhibitor
Antidote	If signs of cholinesterase inhibition appear, atropine sulphate is antidotal. 2-PAM may also be used in conjunction with atropine but should not be used alone.

5. FIRE FIGHTING MEASURES

Flash point	not applicable
Suitable Extinguishing Media	Use foam, carbon dioxide or water spray when fighting fires involving this material.
Fire and Explosion hazard	Material will not burn or explode under normal conditions. Dusts at sufficient concentrations could form explosive mixtures with air.
Fire fighting Instructions	Avoid breathing smoke or mist. Evacuate area and fight fire from a safe distance. Minimize the amount of water used for fighting. Water run-off can cause environmental damage. Dike and collect water used to fight fire. Decontaminate personal protective equipment and firefighting equipment before reuse.
Fire fighting Equipment	Wear self-contained breathing apparatus pressure-demand, NIOSH -approved or equivalent and full protective gear.
Hazardous	



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Combustion Products Carbon dioxide, water vapor, oxides of sulfur, nitrogen and phosphorus.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak Control the spill at its source. In case of major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Eye/face protective equipment should comprise as a minimum, protective glass and, preferably goggles. If there is a significant chance that dusts are likely to build up in the cleanup area, use a suitable dust mask. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labeled containers for recycling or salvage and dispose of promptly. Consider vacuuming if appropriate. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drain, advise emergency services.

7. HANDLING AND STORAGE

Handling Use only in a well-ventilated area. Follow all MSDS /label precautions even after container is emptied because they may retain product residues. Wash thoroughly with soap and water after handling.

Storage Store the material in a well-ventilated dry place and protect from sunlight. 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. Do not dilute concentrate in food or drink containers

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection Eye contact may be avoided by wearing protective eye wear/safety glasses.

Skin contact where contact is likely wear chemical- resistant gloves, coverall, socks And chemical-resistant foot wear. For overhead exposure, wear chemical-resistant head gear.

Inhalation Use this material only in well-ventilated area. Unless ventilation is adequate to keep airborne concentration below recommended exposure standard, approved respiratory protection should be worn.

Ingestion Prevent eating, drinking, tobacco usage 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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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fine free flowing off white powder
Odour	Pungent Sulphur like / strong cabbage like odour
Melting point	91-93°C
Solubility in water	Soluble
Bulk density	0.32
pH	6-7.5
Vapor pressure	1.7×10^{-6} mm Hg at 24°C

10. STABILITY AND REACTIVITY

Stability	This is a stable material
Conditions to avoid	High temperatures and excess moisture
Incompatibility	Alkaline materials
Hazardous Polymerization	Product will not undergo polymerization
Hazardous Decomposition Products	Noxious gases when exposed to alkaline materials. Thermal decomposition may produce oxides of sulfur, nitrogen and phosphorus.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (male rat) 2268 mg/kg b.w. LD50 (female rat) 2714 mg/kg b.w.
Acute Dermal Toxicity	LD50 (Rabbits) >2000 mg/kg b.w.
Acute Inhalation	LC50 (rats) : > 60 mg/l of air
Eye Irritation	Rabbit: Minimal irritation
Skin Irritant	Rabbit: Minimal irritation



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12. ECOLOGICAL INFORMATION

Birds Acute oral LC50 (8 d) for Mallard ducks: 350 mg/kg Chicken 852 mg/kg ring-necked pheasants 140 mg/kg

Fish LC50 (96 h) for Rainbow trout >1000 mg/l Bluegill sunfish 2050 mg/l Channel catfish 2230 mg/l

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of product containers, waste containers and residues according to local, state and federal health and environmental regulations.

Container disposal Method Completely empty bag into application equipment. Do not reuse container. Dispose of empty bag in a sanitary landfill or by burning or incineration if allowed by state or local authorities.

14. TRANSPORT INFORMATION

Rail/Road (RID/ADR)	
Proper Shipper Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class	: 9
UN No.	: 3077
Packing Group	: III
Sea (IMDG – Code)	
Proper Shipper Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class	: 9
UN No.	: 3077
Packing Group	: III
Marine Pollutant	: Yes
Air (ICAO/IATA)	
Proper Shipper Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class	: 9
UN No.	: 3077



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Packing Group : III

Packing Instructions: Packing instructions on sea: P002 Packing instructions on air: Y911/911

15. REGULATORY INFORMATION

EU- Classification Hazard Symbol	Xn	Harmful
Special Risks (R-Phrases)	R22	Harmful if swallowed
Safety advice (S-phrases)	S2	Keep out of the reach of children
	S20	When using do not eat or drink
	S36	Wear suitable protective clothing
	S24/25	Avoid contact with skin and eyes
International WHO Toxicity Classification	U	Unlikely to present hazard in normal use

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.