

MATERIAL SAFETY DATA SHEET

ARMETHRIN 25%EC (Cypermethrin 25%E.C.)

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND SUPPLIER

PRODUCT NAME : ARMETHRIN 25% EC
CHEMICAL NAME : Cypermethrin 25% EC
CHEMICAL GROUP : Synthetic Pyrethroid Group
RECOMMENDED USE : A liquid insecticide for agricultural use only.
FORMULATION : Emulsifiable Concentrate
CORPORATE ADDRESS : Arbuda Agrochemicals Pvt. Ltd.
 1104, Ruby Crescent Business Boulevard,
 Ashok Chakravarti Road, Kandivali-East, Mumbai-400101,
 Maharashtra, India Customer Care No- +91 9076907642
 Email - info@arbudaagrochemicals.com
MANUFACTURER : Arbuda Agrochemicals Pvt Ltd
ADDRESS : Plot No-281-283, GIDC, Taluka -Talod
 District- Sabarkantha, Gujarat - 383215

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS NO.	Percent or content (w/w)
Cypermethrin a.i.	52315-07-8	25 %
Other ingredients	---	75 %

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if inhaled, swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes and clothing. The active ingredient may produce sensations (burning, numbing and tingling) in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash before reuse.

POTENTIAL HEALTH EFFECTS: Effects from overexposure result from inhalation or contact with the eyes or skin. Symptoms of overexposure include decreased activity, tremors, and convulsions, loss of bladder control, in coordination, and increased sensitivity to sound. Contact with cypermethrin may produce skin sensations such as numbing, burning and tingling. These skin sensations are reversible and usually subside within 12 hrs.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known

4. FIRST AID MEASURES

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

5. FIRE FIGHTING MEASURES

Flash point: 94°C (201°F) (CC)

Fire and Explosion Hazards: Slightly combustible. This material may support combustion at elevated temperatures. Suitable Extinguishing Media: Foam, CO₂, or Dry Chemical. Soft stream water fog only if necessary. Contain all runoff.

Fire Fighting Instructions: Isolate fire. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

Hazardous Combustion Products: Heat and fire may result in thermal decomposition and the release of carbon dioxide, hydrogen cyanide, chlorine and hydrogen chloride.

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

- 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, wears 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 become 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 / RANGE	:	>150°C.
COLOUR	:	Pale yellow to light brown
RELATIVE VAPOUR PRESSURE	:	>1
RELATIVE DENSITY (WATER =1)	:	0.96 gm/cm ³ (approx.)
FLASH POINT	:	>24 °C
WATER SOLUBILITY	:	Emulsifiable
APPEARANCE/ODOR	:	Liquid

10. STABILITY AND REACTIVITY

STABILITY	:	Stable under normal temperatures and pressure.
CONDITIONS TO AVOID	:	No special precautions other than good housekeeping.
HAZARDOUS	:	Thermal decomposition products may emit
MATERIALS TO AVOID	:	Strong-oxidizing agents.
DECOMPOSITION	:	Toxic fumes of hydrogen chloride and oxides of carbon.

11. TOXICOLOGICAL INFORMATION

ACUTE LD50 ORAL ALBINO RATS	:	207 to 370 mg/kg B.W
ACUTE LD50 DERMAL ALBINO RABBITS	:	>2000 mg/kg B.W
ACUTE LD50 INHALATION RATS	:	>2.41 mg/L(normal concentration)
EYE IRRITATION	:	Mild irritant.
SKIN IRRITATION	:	Mild irritant.
CARCINOGEN STATUS	:	Non carcinogenic
SKIN SENSITIZATION	:	Non skin sensitizer
MUTAGENECITY	:	Non mutagenic
REPRODUCTIVE TOXICITY	:	Non terratogenic
WHO CLASS	:	Product is unlikely to present any acute hazards in normal use.
EPA TOXICITY CLASS	:	Not applicable
ADI (MAN MG/KG)	:	Data not available

12. ECOLOGICAL INFORMATION

MLD CHICKEN	:	No proprietary data available.
MLD PIGEON	:	65 -110mg/kg BW with NOEL = 13 mg/kg.
TOXICITY TO FISH 96 HRS	:	96 HRS LC50 0.026 mg/lit for rainbow trout.
TOXICITY TO BEE	:	Contact LD50 > 0.23 µg/bee

13. DISPOSAL CONSIDERATION

PESTICIDE DISPOSAL	:	Burn in high temperature incinerator with effluent scrubbing or bury in a specially allocated landfill. Always dispose of in accordance with local regulations.
CONTAINER DISPOSAL	:	Contaminated packaging material should be treated as the product.

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

14. TRANSPORT INFORMATION

UN NUMBER	:	3017
IMDG CLASS	:	6
PACKAGING GROUP	:	III
PROPER SHIPPING NAME	:	Organo phosphorous pesticide, liquid, toxic, flammable
SUBSIDIARY RISK	:	Not "Dangerous goods" for transport by rail or Road

15. REGULATORY INFORMATION

HAZARD SYMBOL	:	Dangerous for the environment symbol (N)
RISK PHRASES	:	R36 / 38 -Moderately Irritating to eyes and skin
SAFETY PHRASES	:	S 36 / 37 / 39 – Wear suitable protective clothing, gloves and eye/face protection. S 57 – Use appropriate containment to avoid environmental contamination.

16. OTHER INFORMATION**MSDS PREPARATION DATE** **01/03/2024****REVISION DATE** **28/02/2026**

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.