



MATERIAL SAFETY DATA SHEET

CYPRINE[®] 100EC

ASTRA INDUSTRIAL COMPLEX CO., LTD. (ASTRACHEM)
P.O. BOX 30447, AL-KHOBAR 31952
KINGDOM OF SAUDI ARABIA

1. PRODUCT IDENTIFICATION

Product Name: **CYPRINE[®] 100EC**

Chemical Class: **Pyrethroid insecticide**

Use: **CYPRINE 100EC** is a non-systemic pyrethroid based on Cypermethrin, which has a contact and stomach action. It is used to control a wide range of pests including: aphids, mites, grasshoppers, leafhoppers, caterpillars, whiteflies, scale insects, thrips, and many others on cereals, citrus, cotton, grapes, vegetables, potatoes and several other crops.

Producer: **Astra Industrial Complex Co., Ltd.**
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	Contents (g / L)	Chemical structure
Cypermethrin IUPAC Name. (RS)- α -cyano-3-phenoxymethyl (1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate CAS No. 52315-07-8	100 \pm 10 g / L	
Emulsifiers	60.0	
Organic solvents	742.8	



3. HAZARD IDENTIFICATION

ACUTE EFFECTS

Physical hazards:

None

Health hazards:

Toxic by inhalation. In contact with skin and if swallowed. Irritating to eyes and skin. May cause sensitization by skin contact.

4. FIRST AID MEASURES

First Aid:

Swallowed

Provided the patient is conscious, wash out mouth with water. Do not induce vomiting. Vomiting should only be induced under the direction of a physician or a poison control center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer water. Immediately transport victim to an emergency facility.

Eye

Irrigate for 20 minutes with copious quantities of water with eyelids held open. If irritation persists, repeat flushing. Seek medical attention immediately.

Skin

Remove contaminated clothing. Flush skin with running water for a minimum of 20 minutes. If swelling, redness, blistering or irritation occurs seek medical attention immediately.

Inhalation

Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth-to-mouth. If breathing is labored, give oxygen. Obtain immediate medical attention.

Advice to doctor:

This product contains materials that may cause severe pneumonitis if aspirated. If ingestion has occurred less than 2 hours earlier, carry out careful gastric lavage; use endotracheal cuff if available, to prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis. Give artificial resuscitation and appropriate chemotherapy if



respiration is depressed. Symptomatic treatment and supportive therapy as indicated.

5. FIRE FIGHTING MEASURES

Extinguishing Media

For small fires, use foam, carbon dioxide or dry powder extinguishant. For large fires, use foam or water-fog; avoid use of water jet. Contain run-off water with for example, temporary earth barriers.

Fire and Explosion Hazards

Flammable

Keep fire exposed containers cool by spraying with water.

Protective Equipment

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

Unusual fire and explosion hazards:

The vapour is heavier than air and may travel a considerable distance to a source of ignition.

6. ACCIDENTAL RELEASE MEASURES

Contain spill and absorb with sand or proprietary absorbent (vermiculite). Prevent from entering drains, waterway or sewers. Collect in sealed open top containers for disposal. Generously cover the contaminated areas with common, household detergent brush and small amounts of water, work the detergent into the remaining spilled material forming slurry. Collect slurry in sealed open top container for disposal.

Disposal

Triple rinse containers, add rinsate to the spray tank, then offer container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.

Waste disposal by industrial incineration or burial at a site approved by local authorities.



7. HANDLING AND STORAGE

Keep in original containers, tightly closed and locked up. Keep out of the reach of children and away from food.

Avoid breathing vapors or spray mist. Use normal good industrial hygiene and housekeeping practices.

Ideal storage temperature is 10 -27°C. Do not expose sealed containers to temperature above 40°C.

8. EXPOSURE CONTROLS / PERSONNAL PROTECTION.

Exposure Standards

For organic solvent: 8 h, TWA, 150 mg/m³

Engineering Controls

Natural ventilation only required when handling the concentrate. A local exhaust should be used in confined areas to keep the level of solvent within acceptable limits.

Personnel Protection

Facial skin contact may cause temporary facial numbness. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves and face shield or goggles. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, yellow liquid free of visible impurities.
Odour:	Aromatic
Water contents:	0.05% w/w
Acidity as H ₂ SO ₄ :	0.01% w/w
Density:	0.9050 Kg/L
Flash point:	26.5°C
Solubility in water:	Emulsifiable

Other Properties

Concentrate forms an emulsion with water



10. STABILITY AND REACTIVITY

Stability

Stable at room temperature.

Incompatibility

Strong oxidizing agents. Acids and alkaline materials

Hazardous polymerization

Will not occur.

Conditions to avoid

Keep away from heat. Keep away from sources of ignition – No smoking.

Hazardous Decomposition Products

Thermal decomposition products are toxic and may include hydrocarbons ammonia, organic and acid halides, Oxides of carbon, nitrogen and sulfur.

11. TOXICOLOGICAL INFORMATION

LD₅₀ Oral rat: 2,500 mg/Kg

Additional information: Irritant and can cause nausea and vomiting.

LD₅₀ Dermal rabbit: 4,000 mg/Kg

Additional information

May cause skin irritation. In humans may cause tingling or numbness in exposed area (paraesthesia) The effect may result from splash, aerosol or transfer to the face from contaminated gloves and hands. This effect is transient, lasting up to 24 hours. There is no evidence of any long term or cumulative effects following repeated contamination Repeated and/or prolonged contact may cause skin sensitization.

Inhalation

Additional Information: High concentrations of this product are irritating to the respiratory tract.

LC₅₀ Inhalation rat: 48 mg/m³ (4 h)

General Information:

Slight skin and eye irritant (rabbits) May be weak skin sensitizer. In 2 years feeding trials, rats receiving 100 mg/Kg diet and dogs receiving 300 mg / Kg diet showed no ill-effects.



Animal studies have not shown any carcinogenic or teratogenic effects.

12. ECOLOGICAL INFORMATION

Keep out of water supplies ground water or open water. This product is very toxic to aquatic organisms

Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

13. DISPOSAL CONSIDERATION.

Disposal Method

Do not contaminate ponds, waterways or ditches with chemical or used containers. Dispose of in facility permitted for hazardous waste.

Container disposal:

Empty container retains product residue. Triple rinse, or equivalent, empty container, return rinse water to dilution mixture, and dispose of dilution mixture as a hazardous waste if it cannot be disposed of by use according to label instructions. Do not reuse container. Offer for recycling or reconditioning, or puncture and dispose of in properly permitted landfill.

14. TRANSPORT INFORMATION

Proper Shipping Name:	PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Cypermethrin)
UN number	UN 3082
Class	6.1
Packing Group	III
Marine Pollutant	Yes

15. REGULATORY INFORMATION.

Pesticide for Agricultural Insect Control

16. OTHER INFORMATION

Buyer assumes all responsibility for safety and use not in accordance with the product label instructions.