



MATERIAL SAFETY DATA SHEET

CEMORT[®] 50EC

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

1. PRODUCT IDENTIFICATION

Product Name: CEMORT 50EC

Chemical Class: Synthetic Pyrethroid Insecticide

Use: Cemort 50EC is a Public Health Insecticide in the form of an emulsifiable concentrate formulation, containing 50 g/L of the active ingredient *Cyfluthrin*. Effective against flying and crawling Insect pests.

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

Substance	Proportions (% w/w)	Structural Formula
Cyfluthrin CAS No. 68359-37-5 Chemical Name (IUPAC): (RS)-α-cyano-4-fluoro-3-phenoxybenzyl (1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	6.10	
Emulsifiers	6.70	
Organic solvents	87.20	



3. HAZARD IDENTIFICATION

Physical hazards:

None

Acute Hazard Symptoms:

Eye: Moderately irritating to the eyes. Vapors may irritate the eyes.

Skin: Contamination of the skin, especially the face, may result in initial stinging followed by numbing which may persist for a few hours.

Inhalation: Inhalation of spray may cause transient irritation of nasal and buccal mucosa.

Health effects:

Tingling sensations may be felt in skin and mucous membranes exposed to the chemical. Exposure to spray mist may cause nasal irritation. Cyfluthrin has been shown to be non-carcinogenic, non-mutagenic, and non-teratogenic in laboratory species. The product may irritate the skin and eyes.

4. FIRST AID MEASURES

First Aid:

Exposure: In all cases consult a doctor!

If swallowed, do not induce vomiting. Give a glass of water. If in eyes, hold eyes open, flood with water for at least 15 minutes and call a physician. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. Remove from contaminated area. Apply artificial respiration if not breathing.

Ingestion:

Call a 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 doctor. Do not give anything by mouth to an unconscious person.

Inhalation:



If a person is overcome by excessive exposures to aerosols of this material, remove to fresh air on uncontaminated area. If not breathing, give artificial respiration. Get medical attention as soon as possible.

Eye:

Hold eyes open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing eyes. Call a doctor for treatment advice.

Skin:

Remove contaminated clothes. Rinse and then wash skin with water and soap.

Advice to doctor:

Apply basic aid and decontamination procedures. Treat symptomatically. There is no specific antidote. If vomiting has occurred be aware of possible pulmonary pneumonia originating from solvent in the lungs.

5. FIRE FIGHTING MEASURES

Extinguishing Media:

Foam, CO₂, Dry chemical

Fire and Explosion Hazards:

Flash point: 39°C

Engineering controls:

No engineering controls are required in the normal use of this product according to label.

Personal protective measures:

Harmful if swallowed. Will irritate the eyes and skin; avoid contact with eyes and skin.

Personal protective equipment:

When preparing and using the spray wear cotton overalls buttoned to neck and wrist, washable hat, elbow-length PVC gloves and face shield or goggles.

Industrial hygiene:



After use and before eating, drinking or smoking, wash hands, arms, and face thoroughly with soap and water.

6. ACCIDENTIAL RELEASE MEASURES

After spillage /leakage/gas leakage:

Prevent spillage from spreading or entering waterways and drains. Take up with absorbent material such as sawdust, peat or chemical binding agent. Fill material along with any contaminated soil etc, in to sealable containers. Clean affected area with an aqueous detergent and a small amount of water. Absorbed this with hydrated lime and place in sealable container. Spread hydrated lime over the affected area. Do not smoke, eat or drink during clean-up operation.

Disposal:

Full or leaking containers should be taken to a local disposal company for biological treatment or incineration. Do not contaminate water, food or feed by storage or disposal

7. HANDLING AND STORAGE

Hazards to humans and Domestic Animals:

Keep out of reach of children. CAUTION- Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, and chewing gum, using tobacco or using the toilet. Do not apply to humans, their clothing or bedding. Do not allow children or pets to contact treated surfaces until spray has dried. Do not contaminate food or use on household pets. Cover fish tanks prior to application.

Toxic to bees.

Other Precautions:

Do not apply this product in patient rooms while occupied or in any rooms while occupied by the elderly or infirm. Do not apply to classrooms when in use. Avoid contamination of food, feedstuffs, or water supply. Do not contaminate food preparation surfaces, kitchen utensils, dishes or feed storage containers. Any food/feed contact surfaces and cooking utensils in the



treatment area should be covered during treatment or thoroughly cleaned before using. Do not spray where electrical short circuits might result, such as wall outlets, conduits.

Storage:

Do not contaminate water, food or feed by storage. Store in original container in secured, dry storage area. Prevent cross-contamination with other pesticides or fertilizers. Do not store above 35 ° C for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damage container.

8. EXPOSURE CONTROLS / PERSONNAL PROTECTION
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Eye protection requirements:

Splash- proof goggles or face shield should be used to prevent liquid splashes from getting into the eyes.

Skin protection requirements:

Avoid skin contact. Use chemical resistant gloves, boots or shoe covers, and apron to prevent dermal exposure.

Ventilation requirements:

Maintain exposure levels below exposure limits through use of general and local exhaust ventilation.

Respirator requirements:

When needed, based on the conditions of use, wear a NIOSH-approved organic vapour respirator with particulate pre-filter.

Additional protective measures:

Clean water and soap should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions. Launder clothing separately after use. Wash thoroughly after handling.



9. PHYSICAL AND CHEMICAL PROPERTIES

Assay:	lambda Cyhalothrin 50 g/L
Appearance:	Clear light yellow liquid free of visible impurities.
Density:	0.9026
Acidity as H ₂ SO ₄ :	0.38 g/ Kg
Flash point:	39 °C
Water content:	<1. 3 g / Kg
Solubility in water:	Forms emulsion.

10. STABILITY AND REACTIVITY

Stability:	Stable under room temperature.
Incompatibility (Material to Avoid):	None known.
Hazardous Polymerization:	Will not occur
Condition to avoid:	Keep away from heat. Keep away from sources of ignition, No smoking.
Hazardous Decomposition Products:	Not Known

11. TOXICOLOGICAL INFORMATION

Cemort 50EC:	Acute Oral LD ₅₀ rat:	> 5000 mg / Kg
Cyfluthrin Technical:		
	LD ₅₀ Oral (ingestion) – rat:	Approx 2100 mg/kg
	LD ₅₀ dermal (skin contact) – rat:	> 5,000 mg/kg
	Eyes (rabbits):	slightly irritant
	Skin (rabbits):	slightly irritant
	Cyfluthrin has been shown in animal tests to be non – carcinogenic and non – mutagenic.	

12. ECOLOGICAL INFORMATION

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



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

Toxic to bees

13. DISPOSAL CONSIDERATION

Disposal Methods:

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 empty containers, 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 if for recycling or reconditioning, or puncture and dispose of in properly permitted landfill.

14. TRANSPORT INFORMATION

Proper Shipping Name:	Insecticide, Liquid; Toxic, Flammable (Cyfluthrin)
UN No. :	3351
Hazard class or Division:	6.1
Packing Group:	III

15. REGULATORY INFORMATION.

Public Health Pest Control Product.

16. OTHER INFORMATION

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