

MATERIAL SAFETY DATA SHEET



ASTRA INDUSTRIAL COMPLEX CO., LTD. "ASTRACHEM"
P.O. BOX 30447, AL-KHOBAR 31952
KINGDOM OF SAUDI ARABIA
Tel # (+966) 3 8121 406

CYPERSAFE 100EW

1. PRODUCT IDENTIFICATION

Product Name: CYPER SAFE 100EW
Active ingredient: CYPERMETHRIN
Chemical Class: IRAC 3A Pyrethroid
Use: **Cyper safe 100EW** is insecticide for Public Health use.
Producer: **Astra Industrial Complex Co., Ltd.**
P.O. Box 30447, Al-Khobar 31952
Kingdom of Saudi Arabia
Emergency Tel # (+966) 3 8121 406

2. HAZARD IDENTIFICATION

Risk phrases:

Xn: Harmful
R20 :Harmful by inhalation.
R22: Harmful if swallowed.
R52/ R53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S2 : Keep out of the reach of children.
S23 : Do not breathe vapour or spray.
S25 : Avoid contact with eyes
S 36/37/39: Wear suitable protective clothing, gloves and eyes/face protection
S62 : If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label.
S61 : Avoid release to the environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	Contents (g /Liter)
cypermethrin	100 g/L

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4. FIRST AID MEASURES

Remove the person from the contaminated environment.

In case of

Skin contact

Remove all contaminated clothings and immediately wash with lot of water and soap;

Eye contamination

Wash the eyes with plenty of cool and clean water;

Inhalation

Carry the person to the open fresh air, loosen the clothings around neck and chest,

Ingestion

If the victim is fully conscious, induce vomiting by tickling back of the throat. Do not administer milk, alcohol and fatty substances.

In case the person is unconscious make sure the breathing passages is kept clear without any obstruction. Victim's head should be turned to one side in the lying down position. In case of breathing difficulty, give mouth to mouth or mouth to nose breathing.

Medical aid:

Take the patient to the doctor/Primary Health Centre immediately along with the original container, leaflet and label.

Treatment/antidote:

No specific antidote. Treatment is essentially symptomatic.

5. FIRE FIGHTING MEASURES

Not a fire hazard. Keep away from heat, sparks and flames.

May form explosive mixtures in air.

Flammability:

> 60 °C. , Class C1 Combustible liquid. Non spontaneous combustion.

Fire and Explosion Hazards:

Stable at normal temperatures and storage conditions. Decomposition will not occur. Polymerisation will not occur. Incompatible with strong bases, strong acids, oxidising and reducing agents, acid chlorides bleaching agents, chlorine, chromates, oxygen,

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percarbonates, perchlorates, permanganates, peroxides, phosphorous acids, trichloroacetic acid.

Suitable Extinguish Media:

Water spray, dry chemical, foam, carbon dioxide (CO₂).

On combustion, toxic fumes such as oxides of carbon, nitrogen and sulphur, hydrogen chloride and other toxic substances may be emitted.

Emergency response actions

Avoid contact with the spilled material or contaminated surfaces. Extinguish or remove all possible sources ignition. Do not smoke, eat or drink during the cleanup process. Personal involved in cleanup should wear protective clothing and equipment. Keep people and animals away and upwind. Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labeled drums for safe disposal. Clean floor with a damp cloth and place cloth in drum. Cover and label drums safe disposal. Thoroughly ventilate the area after cleanup. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority. Decontaminate tools and equipment used in the cleanup.

Potential combustion products generated in fire

On combustion, toxic fumes such as oxides of carbon, nitrogen and sulphur, hydrogen chloride and other toxic substances may be emitted.

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety: Personal handling this material should be thoroughly trained to handle spills and release. Wear appropriate gear for the situation. See personal protection information in Section 8.

Cleanup and disposal of Spill: Sweep up and place in an appropriate closed container (see Section 7: Handling and Storage). No sparking tools should be used. Avoid creation of dusty conditions. Clean up residual material by washing area with water and detergent. Collect washings for disposal. Decontaminate tools and equipment following cleanup.

Land Spill or Leaks:

Containment of spill: Stop leak if it can be done without risk. Follow procedure under Cleanup and Disposal of spill.

Environmental and regulatory Reporting: Do not flush to drain. If spilled on the ground, the effected area should be scraped and placed in an appropriate container for disposal. Prevent material from entering public sewer system or any waterway. Spills may be reportable to the National Response Centre

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7. HANDLING AND STORAGE

Keep out of Reach of children and animals

Personal handling this product should be thoroughly trained as to its hazards. Use no sparking tools and grounded/bonded equipment and containers when transferring. Do not ingest. Do not breathe dust or mists. Avoid getting material on clothing. Use handling, storage and disposal procedures that will prevent contamination of water, food or feed.

Do not store in or around the home. Store unused product in a cool, ventilated dry locked area. Never transfer this product to another container for storage. Do not allow prolonged storage in areas where temperatures frequently exceed 115°F (46°C).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

When handlers used closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the worker protection standard (WPS) for agricultural pesticides, the handler PPE requirements may be reduced or modified as specified in WPS.

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

Eye/Face protection

Eye and face protection requirements will very dependent upon work environment conditions and materials handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area.

Body protection

Application and other handlers must wear long sleeved shirts and long pants. Waterproof gloves, shoes plus socks and chemical resistant headgear for overhead exposure.

Work/Hygienic procedures:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such

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instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow
Physical state:	Liquid
Acidity:	≤ 1.5 g/kg as H_2SO_4
Density g/ml	0.879 – 0.891
Solubility (in water)	Soluble
Flash Point:	$\geq 40^\circ C$

10. STABILITY AND REACTIVITY

Chemical stability: This material is stable under normal handling and storage conditions

Condition to avoid: none known

Incompatibility: strong bases, strong acids, strong oxidizing agents.

Hazardous polymerization : Will not polymerize

11. TOXICOLOGICAL INFORMATION

Technical cypermethrin

Acute oral toxicity : LD_{50} (mg/kg)	: Male Rat 4150 mg/kg (in corn oil).
Acute dermal toxicity LD_{50} (mg/kg)	: Male Rat >4920 mg/kg
Acute inhalation toxicity : LC_{50}	: Male Rat > 2.5 mg/l
Skin irritant effect	: Slightly Irritant
Eye mucosa irritant effect	: Slightly irritant to the eyes of rabbits
Sensitizing effect	: week skin sensitiser

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12. ECOLOGICAL INFORMATION

Birds Acute oral LD₅₀ for mallard ducks >10 000, chickens >2000 mg/kg.

Fish LC₅₀ (96 h) for rainbow trout 0.69, sheepshead minnows 2.37 µg/l; under field conditions, fish are not at risk from normal agricultural usage.

Daphnia LC₅₀ (48 h) 0.15 µg/l.

Bees Highly toxic to honeybees in laboratory tests, but field applications at recommended dosages do not put hives at risk. LD₅₀ (24 h) (oral) 0.035 µg/bee; (topical) 0.02 µg/bee.

Other beneficial spp. Not toxic to Collembola.

13. DISPOSAL CONSIDERATION

General Disposal Guidance:

Do not contaminate water, food or feed by disposal, Contamination with this product will render water, food or feed unfit for human consumption. Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, in accurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Disposal:

Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT:

Not classified as dangerous goods for transport by road and rail

MARINE and AIR:

Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG) and by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation.

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Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s
(Cypermethrin)
UN. No: **UN 3082**
Hazard Class: **9**
Packing group: **III**
Subsidiary Risks: **3**

15. REGULATORY INFORMATION.

Pesticide for public health use.

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace based on publicly available and internally available information. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.