

# MATERIAL SAFETY DATA SHEET



## CYGNET 100EC

ASTRA INDUSTRIAL COMPLEX CO., LTD. "ASTRACHEM"  
P.O. Box 30447, AL-KHOBAR 31952  
KINGDOM OF SAUDI ARABIA  
Tel # (+966) 3 8121 406  
Revision Date: 08-06-2020

### 1. PRODUCT IDENTIFICATION

**Product Name:** CYGNET 100EC  
**Chemical Class:** Pyrethroid insecticides  
**Use:** CYGNET 100EC is public health pesticide.  
**Producer:** Astra Industrial Complex Co., Ltd.  
P.O. Box 30447, Al-Khobar 31952  
Kingdom of Saudi Arabia  
Emergency Tel # (+966) 3 8121 406

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	Content	Chemical structure
Cypermethrin CAS No. 52315-07-8	100 ± 10 gm/L	

### 3. 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.

### 4. FIRST AID MEASURES

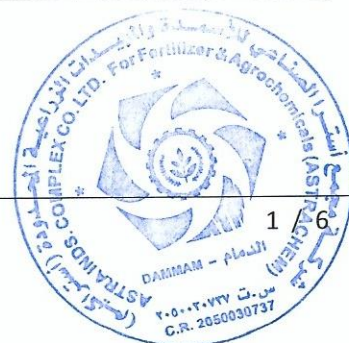
**Remove the person from the contaminated environment.**

**In case of**

**Skin contact**

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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

### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

### Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

### Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

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### Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand.

### Methods and material for containment and cleaning up

Rapidly recover the product. To do so, wear a mask and protective clothing.

Wash with plenty of water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't reuse empty container.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Store in the original container

Keep out of reach of children

Keep in a dry and cool place.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

## 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

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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 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

Assay:	"Cypermethrin" 100 g/L
Appearance:	Clear yellow liquid free of visible impurities.
Odour:	Aromatic
Water contents:	Maximum 2 g/kg
Acidity as H <sub>2</sub> SO <sub>4</sub>	Maximum 1.5 g/kg
Density:	0.78 – 0.98 gm/mL
Flash Point	> 35 °C
pH (1% solution)	4 – 8

## 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

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### 11. TOXICOLOGICAL INFORMATION

#### Technical Cypermethrin

Acute oral toxicity : LD <sub>50</sub> (mg/kg)	: Male Rat 250 – 4150 mg/kg
Acute dermal toxicity LD <sub>50</sub> (mg/kg)	: Male Rat >4920 mg/kg
Acute inhalation toxicity : LC <sub>50</sub>	: 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

#### Formulation:

Acute oral toxicity : LD <sub>50</sub> (mg/kg)	Rat 500 mg / kg b.w
Acute dermal toxicity LD <sub>50</sub> (mg/kg)	Rabbits > 2000 mg / kg
Acute inhalation toxicity : LC <sub>50</sub>	Rat > 0.57 mg/L of air
Acute dermal irritation:	Non-irritant to skin of rabbit
Acute eye irritation:	Mildly irritating to eyes
Skin sensitaization:	Weak sensitizer to guinea pigs

### 12. ECOLOGICAL INFORMATION

**Birds** Acute oral LD<sub>50</sub> for mallard ducks >10 000, chickens >2000 mg/kg.

**Fish** LC<sub>50</sub> (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** LC<sub>50</sub> (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. LD<sub>50</sub> (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.



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### 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

<b>Proper Shipping Name:</b>	Pesticide, Liquid, Toxic, N.O.S, (CYPERMETHRIN)
<b>UN. No:</b>	<b>UN 2902</b>
<b>Hazard Class:</b>	<b>6.1</b>
<b>Classification Code:</b>	TF2
<b>Packing group:</b>	<b>III</b>
<b>Subsidiary Risks:</b>	<b>3</b>

### 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.

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