

# Product Safety Data Sheet

(Hexyron-100 EC)

## 1. Chemical product and company identification

1.1. Prepared Date : Aug. 20 . 2020

1.2. Product information :-

Trade name : Hexyron-100EC

1.3. Information about manufacturer / supplier :

Saudi Delta Company for Chemical Industries

Riyadh – Saudi Arabia – 3rd IndustrialCity

Tel. 00966-1-2654533 Fax. 00966-11-2654532

P.O. Box 355809Riyadh11383Saudi Arabia

## 2. Information on ingrediants

2.1. Chemical properties (Component substances)

The product is a mixture of one active ingredient , emulsifiers , and Solvent.

- Hexythiazox10EC: 10% w/v (Non-systemic acaricide with contact and stomach action

- Emulsifiers: 6% w/v (Anionic / non- ionic type)

- Aromatic Solvent: Up to 100% v

### 2.1.1. Hexythiazox:

- Chemical Name: (4RS,5RS)-5-(4-Chlorophenyl)-N-cyclohexyl-4-methyl-2-oxothiazolidine-3-carboxamide

- CAS No. : [78587-05-0]

- Mol. Formula : C<sub>17</sub>H<sub>21</sub>Cl N<sub>2</sub>O<sub>2</sub>S Colourless

- Physical Form : crystals

- Melting Point : 105.4°C

- Vapour Pressure : 0.001333 mPa (20°C)

- Solubility : In water 0.41 mg/l .In chloroform 1379 , acetone 159 , xylene

230 , acetonitrile 34.5 , hexane 4.64 , methanol 17.6 ( all in gm/L , (20°C) .

- Stability : Stable to light , air , and heat. Stable to 300°C.Aqueous solution in sunlight,DT50 16.7 d.

### 2.1.2. Emulsifiers :

A combined anionic/nonionic emulsifiers specially intended for formulation of pesticide .

Composition : 15-30% calcium dodecyl benzenesulfonate .  
10-20% n-Butanol .  
30-60% polyalkyleneoxidederivative .

Appearance : Clear yellow-brown liquid and cloudy yellow liquid

Density : 0.99-1.01 gm/ml (20 °C)

Flash point : 37 °C .

Pour point : 2-3 °C .

Viscosity : 1150 mPa s .

Solubility : Soluble in Isopropanol , Octanol , water , and exylene in soluble in kerosene and mineral oil

### 2.1.3. Aromatic Solvent:

CAS No. : 68920-06-9 SHA : 086803

Composition : Dimethylbenzene (ortho , meta , and para isomers).

Properties : Volatile . Petroleum distillate (75-100% aromatic hydrocarbon) , B.P. : 175-300 °F

## 3. Hazard Identification

**3.1. Dangerous Substances** : Moderately hazardous .

**3.2. Important Hazardous** : Solvent may be present aspiration hazardous .

**3.3. Signs and Symptoms of over-exposure** : Headache , dozzomess ; restlessness ; anxiety; mental confusion, convulsions; coma; depression of the respiratory center. These symptoms can occur in different combinations and time of on set sequence, and duration may very depending on the chemical, dose, and route of exposure.

## 4. First aid Measures

**Eyes** : immediately flush for 15 minutes with large amount of water .

**Skin** : remove all contaminated clothing atonce ; thoroughly wash with soap and water

**Ingestion** : Don't induce vomiting or administer liquids .

Vomiting should be induced only under professional supervision. Keep patient prone and quiet . Only a physician should induce vomiting as first aid for this slightly toxic



substance due to increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent .

## 5. Fire Fighting Measures

### 5.1. Extinguishing media :

5.1.1. Suitable: Carbon dioxide, foam, water fog, dry chemical and halogenated agents.

5.1.2. Not to be used: Don't use water except in case important fire.

5.1.3. Protection against fire: Keep a way from sources of ignition.

## 6. Accidental Release Measures

### 6.1. Personal precautionary measures :

6.1.1. **Respiratory protection** : In case of insufficient ventilation wear apesticide respirator jointly approved by the local authorities .

6.1.2 **Protective gloves** : wear heavy duty , natural rubber gloves , or chemical resistant gloves such as Barrier laminate or Nitrile Rubber or. Neoprene rubber or viton .

6.1.3 **Eye protection** : wear safety goggles .

6.1.4. **Other protection** : wear water-proff pants , coat , hat , rubber boots or ruber overshoes.

6.2. **Environmental Precaution** : Stop any evertual leakage.

6.3. **After spillage / leakage on soil**: Liquid spillage should be damned off and pumped into containers; soak up remainder with absorbent material and dispose of in accordance with local regulations .

## 7. Handling and Storage

7.1. Don't apply when weather conditions favor drift from treated area. Don't contaminate

lakes, streams, ponds. When using don't eat, drink, or smoke. Don't breath spray. Wash hands and exposed skin before meals and after work.

Wash out container thoroughly and dispose of safety. Store in original container in a cool, dry, well-ventilated, secure area out of reach of children and animals store in original container, tightly closed in a safe place.



## 8. Exposure controls , Personal Protections .

- 8.1. **Personal Protection:** Don't breath spray, after treatment, wash and change clothes prior anything else like eating, drinking, or smoking.
- 8.2. **Respiratory Protection :** Wear a suitable mask.
- 8.3. **Skin Protection :** Wear a suitable protective clothing mask.
- 8.4. **Eye Protection :** Wear eye, face protection.
- 8.5. **Ingestion :** Don't eat, drink, or smoke during application.

## 9. Physical and chemical properties

- 9.1. Shape : Liquid
- 9.2. Colour : Clearcolorless to yellowish
- 9.3. Odour : Aromatic odour
- 9.4. Product Use : Insecticide / Acaricide
- 9.5. Melting point : Not applicable
- 9.6. Boiling point : 175 - 300°F
- 9.7. Specific gravity ( 20°C) : 0.91
- 9.8. Vapour pressure : Not available
- 9.9. Viscosity (CPS) 25 °C : 20
- 9.10. Solubility in water : Forms white emulsion
- 9.11. Flash point (closed cup) : 40 °C
- 9.12. PH ( 1% aq. Emul. ) w/v : 6.2
- 9.13. Flammable limits : Not available

## 10. Stability and Reactivity

### 10.1. Hazardous Decomposition :

Hexaron 100 EC is stable under normal conditions 25°C , stable in neutral and slightly acidic media .

### 10.2. Dangerous products of decomposition :

( soil and water ) binds tightly to soil , with rapid degradation by soil microorganisms No bioaccumulation .

## 11. Toxicological Information

11.1. Acute oral LD50 for rats and mice >5000 mg/kg

11.2. Acute percutaneous LD50 for rats>5000 mg/kg. Mild eye irritant, no irritating to skin (rabbits).



- 11.3. Inhalation : LC50 (4h) for rats >2 mg/l air
- 11.4. NOEL : (2 y) for rats 23.1 mg/kg b.w
- 11.5. ADI (JMPR) 0.03 mg/kg b.w (1991)
- 11.6. Toxicity class : (EPA) IV

## 12. Ecological Data

- 12.1. **Birds** : Acute oral LD50 for mallard ducks>2510 ,bobwhite quail >5620 mg/kg .  
Japanese quail >5000 mg/kg.
- 12.2. **Fish** : LC50 (96 hr) for rainbow trout >300 , bluegill sunfish 11.6 mg /L .  
(48h) for carp 3.7 mg/l
- 12.3. **Bees** :Non toxic to bees.
- 12.4. **Daphnia** : EC50 (48 hr) 1.2 mg/l .

## 13. Disposal Considerations

### 13.1. Pesticides Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of use according to label instructions contact.

Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### 13.2. Container disposal

13.2.1. **Metal containers:** 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 local authorities. Do not cut or weld metal containers.

13.2.2. **Plastic containers:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by authorities, by burning. If burned, stay out of smoke.

13.2.3. **Returnable / Refillable Sealed Containers:** Don't rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

## 14. Transport Information

UN No. : 1992

IMO CLASS: 3

UN PROPER SHIPPING NAME : FLAMMABLE LIQUID, TOXIC , N.O.S

PACKING GROUP : III

SUBSIDIARY RISK : 6.1

GGVE/GGVS : 3

IATA/ICAO : 3

RID/ADR : 3

IMDG-Code : 3

## 15. Regulatory Information

15.1. Toxicity Classifications : Moderately Hazardous

Warning Symbol : 

### 15.2. R-Phrase

R21/22 : Harmful in contact with skin and if swallowed

R36/38 : Irritating to eyes and skin .

R10 : Flammable

R20 : Harmful by inhalation

### 15.3. S-Phrase

S26 : In case of contact with eyes , rinse immediately with plenty of water and seek medical advice .

S37/39 : Wear suitable gloves and eye / face protection ..

S25 : Avoid contact with eyes .

## 16. Other Information

The producer warrants the quality of this product in the original closed packaging , and of its conformity with authority agreement during 2 years .