

# Product Safety Data Sheet

## 1. Chemical product and company identification

1.1. Prepared Date : Feb. 20 . 2022

1.2. Product information : -

Trade name: Acaris-50 EC.

1.3. Information about manufacturer / supplier :

Saudi Delta Company for Chemical Industries Riyadh – Saudi Arabia – 3<sup>rd</sup> Industrial City

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

P.O. Box 355809 Riyadh 11383 Saudi Arabia

### 2. Information on ingrediants

### 2.1. Chemical properties (Component substances)

The product is a mixture of one active ingrediant, emulsifiers, Co-solvent, and Solvent.

Abamectin: 5 % w/v (Insecticide and acaricide
Emulsifiers: 7% w/v (Anionic / non- ionic type)

- Aromatic Solvent: Up to 100% v

#### 2.1.1. Abamectin:

- Chemical Name: (IUPAC) name (10E, 14E, 16E,22Z)-(1R, 4S,5' S, 6'R, 8R, 12S, 13S, 20 R, 21 R, 24S)-6'[(S)-sec=butyl]-21, 24-dihydroxy-5', 11,13,22-tetramethyl-2-oxo-3,7,19-trioxatetracyclo=(15.6.1.1 4,8.O<sup>20,24</sup>] pentacoa-10, 14, 16, 22-tetraene-6-spiro-2'- (5',6'-dihydro-2'H-pyran)-12-y 12,6-dideoxy-4-O- (2,6'-dideoxy-3-O-methyl-α-L-arabino-hexopyranoside (I) (I) mixture with (10E, 14E, 16E, 22Z)= (1R, 4S, 5'S, 6S, 6'R, 12S, 13S, 20 R,21R, 24S)-21, 24-dihydroxy-6'-isopropyl-5', 11, 13, 22-tetramethyl-2-oxo-3, 7, 19-trioxatetracyclo [15.6.1.1<sup>4,8</sup>, O<sup>20,24</sup>] pentacosa-10, 14, 16, 22-tetraene-6-spiro-2'-(5',6'-dihydro-2'H-pyran)-12-yl 2,6-dieoxy-4-O-(2,6-dideoxy-3-O-methyl-α-L-= arabino-hexopyranosyl)-3-O-methyl-α-L-arabino-hexopyranoside (ii) (4:1).

- CAS No. : 71751-41-2 Abamectin; 65195-55-3 (I); 65195-56-4 (ii)

- **Mol. Formula** :  $C_{45}H_{72} O_{14} (B19) ; C_{47} H_{70} O_{14} (B_{16})$ 

- Physical Form : Colourless to Pale yellow crystalline

- **Melting Point** : 150-155 °C ( tech. )

- **Vapour Pressure**: < 200nPa



- Solubility

# شركة الدلتا السعودية للصناعات الكيماوية SAUDI DELTA COMPANY FOR CHEMICAL INDUSTRIES

: In toluene 350, acetone 100, isopropanol 70, chloroform 25, ethanol 20, methanol 19.5, n-butanol 10, cyclohexane 6

(all in gm/L,  $(21^{\circ}C)$ .

- **Stability** : Stable to hydrolysis in aqueous solution at pH 5,7 and 9

 $(25^{\circ}C)$ .

#### 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 (Abamectin).

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

**3.3. Sings 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 weare 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 : Clear yellowish9.3. Odour : Aromatic odour

9.4. Product Use : Insecticide / Acaricide

9.5. Melting point : Not applicable

9.7. Specific gravity ( 20°C) : 0.87

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) : 38 °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:

Acaris-50 EC is stable under normal conditions  $25^{\circ}$ 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

#### 7. Toxicological Information

Acute oral LD<sub>50</sub> (rat): 8.7 a.i.mg/kg.

Acute dermal LD<sub>50</sub> (rat): >2000 a.i.mg/kg.

Acute inhalation LC<sub>50</sub> (rat, 4h): >0.034 a.i.mg/L and <0.21 a.i.mg/L.

Eye Contact: Non Irritation (Rabbit). Skin Contact: Non Irritation(Rabbit).

Skin Sensitization: Non-sensitive (Guinea Pig).

### 12. Ecological Data

Effects on bees:

Contact acute LC<sub>50</sub> (24 hour) is 0.002 a.i.µg/bee; oral acute LD<sub>50</sub> is 0.009 a.i.µg/bee.

Effects on fish:

The Acute 96 hour LC<sub>50</sub> is 0.003 a.i.mg/L in rainbow trout, 0.0096 a.i.mg/L in bluegill sunfish, 0.015 a.i.mg/L in sheepshead minnows, 0.024 a.i.mg/L in channel catfish, and 0.042 a.i.mg/L in carp.

Effect on aquatic invertebrates:

Acute 48-hour LC<sub>50</sub> for Daphnia magna is 0.003 a.i.mg/L.

Effects on birds:

Acute oral LD<sub>50</sub> for Bobwhite quail is >2000 a.i.mg/kg.

## 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 insturctions 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.



RID/ADR: 6.1

14. Transport Information

GGVE/GGVS: 6.1/III

IMDG-Code :6.1/ III EMS :---- MFAG : ----

IATA/ICAO : 6.1 III UN : ---- PAX : ---- CAO : ----

15. Regulatory Information

15.1. **Toxicity Classifications**: Moderately Hazardous

Warning Symbol : X

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

S22 : Don't breath dust.

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 warrantees the quality of this product in the original closed packaging , and of its conformity with authority agreement during  $2\ \mathrm{years}$ .