

# Saudi Delta Company for Chemical Industries

## Product Safety Data Sheet

### 1. Chemical product and company identification

1.1. *Prepared Date* : June . 6 . 2024

1.2. *Product information* : -

Trade name : Nemagold-750 EC

1.3. *Information about manufacturer / supplier :*

Saudi Delta Company for Chemical Industries

Riyadh – Saudi Arabia – 3rd Industrial City

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

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### 2. Information on ingredients

2.1. *Chemical properties (Component substances)*

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

- Fosthiazate :75% w/v (systemic Nematicide ,soil applied )

- Emulsifiers: 7% w/v ( Anionic / non- ionic type )

- Aromatic Solvent: Up to 100% v

#### 2.1.1. Fosthiazate:-

**Composition** Tech. is 93.0%.

**Mol. wt.** : 283.3

**M.f.** : C<sub>9</sub>H<sub>18</sub>NO<sub>3</sub>PS<sub>2</sub>

**Form** :Pale yellow liquid; (tech. is a light brown liquid).

**B.p.** : 198 °C/0.5 mmHg

**V.p.** : 5.6 ´ 10<sup>-1</sup> mPa (25 °C)

**KOW logP** = 1.68

**Henry** : 1.76 ´ 10<sup>-5</sup> Pa m<sup>3</sup> mol<sup>-1</sup>

**S.g./density** : 1.240 (20 °C)

**Solubility** :In water 9.85 g/l (20 °C). In *n*-hexane 15.14 g/l (20 °C).

**Stability** :In water, DT50 3 d (pH 9, 25 °C).

**F.p.** : 127.0 °C (Pensky-Martens closed tester)

### 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 ( Xylene ):

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

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## 3. Hazard Identification

3.1. **Dangerous Substances:** Fosthiazate has a moderate mammalian toxicity.

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

3.3. **Sings and Symptoms of over-exposure :** Idential to those occurring in organophosphorus poisoning, however features tend to be of quicker onset and shorter duration. Exhaustion, weakness, confusion, vomiting, cramplike abdominal pains, cold sweating, salivation, tightness of chest, muscle twitches in the eye lid and tongue, followed by larger muscle twitching, muscle weakness, diarrhoea, bronchial.

In very severe cases : Cofusion, Cyanosis, profuse, sweating, incontinence, mental confusion, progressive cardiac and respiratory failure, coma.

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## 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 a pesticide 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-proof pants , coat , hat , rubber boots or rubber overshoes.

### 6.2. *Environmental Precaution* : Stop any eventual leakage.

**6.3. After spillage / leakage on soil:** Liquid spillage should be dammed 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 safely . 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	: Brownish
9.3. Odour	: Characteristic odour
9.4. Product Use	: Nematicide
9.5. Melting point	: Not applicable
9.6. Boiling point	: Not available
9.7. Specific gravity ( 20°)	: 1.13
9.8. Vapour pressure (mm Hg)	: Not available
9.9. Viscosity (CPS) 25 °C	: 60
9.10. Solubility in water	: Forms white emulsion
9.11. Flash point °C	: > 25 °C
9.12. PH ( 1% aq. Emul. ) w/v	: 4-6
9.13. Flammable limits	: Not available

## 10. Stability and Reactivity

- 10.1. **Hazardous Decomposition:** Fosthiazate-750 EC is stable under normal conditions (25°), stable in neutral and slightly acidic media , stable to U.V.
- 10.2. **Dangerous products of decomposition :** Non known .

## 11. Toxicological Information

- 11.1.Oral :** Acute oral LD50 for male rats 73, female rats 57 mg/kg.
- 11.2. Skin and eye :**Acute percutaneous LD50 for male rats 2396, female rats 861 mg/kg. Irritating to eyes; not irritating to skin (rabbits). Sensitising to skin (guinea pigs).
- 11.3. Inhalation :** LC50 (4 h) for male rats 0.832, female rats 0.558 mg/l.

## 12. Ecological Data

- 12.1. Birds :**Acute oral LD50 for ducks 20, quail 10 mg/kg.
- 12.2. Fish :**LC50 (96 h) for trout 114, bluegill sunfish 171 mg/l.
- 12.3.Daphnia :** EC50 (48 h) 279 mg/l.
- 12.4.Bees :** LD50 (48 h) 0.256 mg/bee.

## 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

GGVE/GGVS : 6.1/III

IMDG-Code :6.1/ III

IATA/ICAO : 6.1 III

EMS :----

UN : ----

RID/ADR : 6.1

MFAG : ----

PAX : ----

CAO : ----

## 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

S22 : Don't breathe 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 warrants the quality of this product in the original closed packaging , and of its conformity with authority agreement during 2 years .

