

# Product Safety Data Sheet

## 1. Chemical product and company identification

1.1. **Prepared Date:** 20/06/2022

1.2. **Production Information:**

**Trade Name:** *TOLEX 500WP*

1.3. Information about manufacturer / supplier :

Saudi Delta Company for Chemical Industries

Riyadh – Saudi Arabia – 3rd Industrial City

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

P.O. Box 355809 Riyadh 11383 Saudi Arabia

## 2. Information on ingredients

2.1. **Chemical properties** (Component Substances).

The product is a mixture of active ingredient, wetting agent, Dispersing agent, and carrier.

**Tolclofos-methyl** 50% w/w (active ingredient), non-systemic contact fungicide with protective and curative action

Anionic / Nonionic surfactants v% (wetting & Dispersing agents)

Carrier up to 100% w/w.

2.1.1. **Tolclofos-methyl :**

**Chemical name:** O-2,6-dichloro-p-tolyl O,O-dimethyl phosphorothioate

**Common name:** Tolclofos-methyl (BSI, E-ISO , (m)F-ISO)

**CAS No.:** [57018-04-9]

**Development Code:** S-3349 (Sumitomo)

**Mol.wt:** 301.1

**Mol. Formula:** C<sub>9</sub>H<sub>11</sub>Cl<sub>2</sub>O<sub>3</sub> PS

**Form:** Colorless crystals;(tech. ,colorless to light brown solid)

**M.P.** 78-80, **v.p.:** 57mPa (20°C)

**F.P :** 210 (Cleveland open cup)

**Kow logP=** 4.65(25 °C)

**Solubility:** In water at 25°C, 1.1ppm , In hexane 3.8%, xylene 36%, methanol 5.9%

**Stability:** Stable to light , heat and moisture . Decomposed in alkaline and acidic

2.1.2. **Surfactants:**

Anionic Surfactants (lignosulfonate) 50-100%

Anionic surfactants 10-25%

**Form:** Powder **pH:** 8 (5% H<sub>2</sub>O)

**M.P:** > 100°C **F.P:** Not applicable

**Colour:** brown **V.P:** < 1mb (20°C).

**Water Solubility:** Completely soluble.

**Flammability (Solid, gas):** No date available

## 3. Hazard Identification

3.1. **Dangerous Substances:** No any dangerous substances.

3.2. **Important Hazardous:** May cause sensitization by inhalation and skin contact.

3.3. **Symptoms relating to use:** There is no dangerous signs or symptoms obtained, but headache, skin irritation, and stomach may be caused by the over exposure of this material.

#### 4. First aid Measures

- 4.1. **Precautions:** If you feel unwell, seek medical advice (show the label where possible)
- 4.2. **Inhalation:** In case of loss of cons., artificial respiration should be performed, move to fresh air.
- 4.3. **Skin Contact:** After contact with skin, wash immediately thoroughly with soap and water.
- 4.4. **Contact:** In case contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 4.5. **Ingestion:** Give plenty of water and induce vomiting.
- 4.6. **Contact with clothes:** Change clothes when contaminated and in any case when the work is over.
- 4.7. **Further informations:** Treat symptomatically, no specific antidote.

#### 5. Fire Fighting Measures

- 5.1. **Extinguishing media:**
  - 5.1.1. **Suitable:** Carbon dioxide, dry chemicals, foam.
  - 5.1.2. **Not to be used:** Don't use water except in case important fire.
  - 5.1.3. **Protection against fire:** Keep away from sources of ignition, No smoking.
  - 5.1.4. **Special exposure Hazrads:** Contain fire fighting water to protect environment, thermal decomposition may release toxic fumes.  
In case of important fire use a self contained respiratory apparatus and protective clothes.

#### 6. Accidental Release Measures

- 6.1. **Personal precautions:** Avoid contact with skin.
- 6.2. **Environment precautions:** Stop any evertual leakage.
- 6.3. **After spillage / leakage on soil:** Sweep up to collect product without dust, and incinerate according to regulation or recycle.

#### 7. Handling and Storage

- 7.1. **Technical Protective measures:** Keep the product in the original container, away from food, animals, foodstuff, and out of reach of children, don't breath the dust, decomposes on prolonged exposure to air and moisture.
- 7.2. **Handling:** Handle contains tightly closed, antidust mask may be desirable when emptying bags.
- 7.3. **Storage:** Store in dry, cool, well-ventilated area, avoid exposure to direct sunlight, and don't pile higher than 3 pallets.

#### 8. Exposure controls, Personal Protections.

- 8.1. **Personal protection:** Don't breath dusts, after treatment, wash and change clothes prior anything else like eating, drinking, or smoking.
- 8.2. **Respiratory protection:** Wear a suitable anti dust mask.
- 8.3. **Skin protection:** Wear suitable protective clothing mask.
- 8.4. **Eye protection:** Wear. Eye / face protection.

8.5. **Ingestion:** Don't eat, drink or smoke during application.

8.6. **Industrial hygiene:** Avoid splashes (Suitable protective clothing ...etc.)

## 9. Physical and chemical properties

9.1. **Physical state at 20°C:** Solid, powder.

9.2. **Colour:** Gray to brown.

9.3. **Melting point (C°):** Not applicable.

9.4. **Bulk Density (gm/cm<sup>3</sup>):** 0.45

9.5. **Solubility in water (20°C):** Form asuspension liquid.

9.6. **Suspensibility (%) w/w:** Not applicable

9.7. **pH of 1% (aq. Susp.) w/v.:** 6.8

9.8. **Flash point:** Not applicable.

## 10. Stability and Reactivity

10.1. **Hazardous decomposition products:** Stable for at least two years below 50°C, and slowly decomposed in alkaline solution with no any hazardous products.

10.2. **Hazardous properties:** Slightly fire hazard when exposed to heat end flame.

## 11. Toxicological Information

11.1. **Acute oral.** (LD50)mg/kg:

**Rats:** 5000

11.2. **Acute percutaneous** (LD50)mg/kg:

**Rabbits :** Non-irritating to skin and eyes

**Rats:** > 5000

With non-irritating to skin and eyes (rabbits).

11.3. **Inhalation:** LC50 for rats > 3320mg/m<sup>3</sup>

11.4. **NOEL:** In 6 months feeding trials , rats showed no ill-effects

11.5. **ADI :** (JMPR) 0.07mg/kg b.w(1994)

11.6. **Toxicity class :** WHO (a.i) U ; EPA (formulation) III

## 12. Ecological Data

12.1. **Birds:** Acute oral LD50 for mallard ducks and bobwhite quail>5000mg/Kg.

12.2. **Fish:** LC50 (96h) for blegill sunfish > 720µg/l

## 13. Disposal Considerations

13.1. **Disposal:** Residue and rinse water must be poured into a 30cm hole, 50m away from any water and covered with earth.

After use, empty and clean apparatus on site, prevent the product entering natural water, ditches or sewers.

13.2. **Disposal of packaging:** After use, empty packing must be punched and destroyed or incinerated.

## 14. Transport Information

GGVE/GGVS : 9

IMDG-Code :9

RID/ADR : 9

IATA/ICAO : 9

UN NO.: 3077

IMO Class : 9

PACKING

GROUP : III

SUBRISK:-

UN Proper Shipping Name : Enviromently Hazardous Subs., solid ,Toxic, N.O.S

## 15. Regulatory Information

15.1. **Symbol(s):** X Harmful.

15.2. **S-Phrase:** S22: Don't breath dust.

S24/25: Avoid contact with skin and eyes.

## 16. Other Information

6.1.1. **Recommended uses and restrictions:** The producer warrantees the quality of this product in the original closed packaging, and of its conformity with authority agreement during 2 years.