

Product Safety Data Sheet

1. Chemical product and company identification

1.1. **Prepared Date:** November. 13. 2024

1.2. **Production Information:**

Trade Name: Indocarb-150 SC

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 amixture of one active ingrediant, Antifungal Agent, Wetting & Dispersing agents and water .

- Carboxy methyl cellulose: 2.0%
- Antifoaming Agent: 0.2%
- Polydimethylsiloxane emulsion
- Antifungal Agent: 0.1%
- Formalin
- Wettin & Dispersing Agents: 4.0%
- anionic liginosulfonate blend and sodium alkylbenzene sulfonate

2.1.1. **Indoxacarb:**

Chemical name: methyl (S)-N-[7-chloro-2,3,4a,5-tetrahydro-4a-(methoxycarbonyl)indeno[1,2-e][1,3,4]oxadiazin-2-ylcarbonyl]-4'-(trifluoromethoxy)carbanilate

Common name: Idoxacarb

CAS No.: [173584-44-6]

Mol.wt: 527.84

Mol. Formula: C₂₂H₁₇ClF₃N₃O₇.

Form: White Powder.

M.P. : 88.1°C

S.G./ Density: 1.44 (20°C)

Soloubility: In water at 0.2µg/ml

In acetonitrile >250 g/l, Dimethylformamide >250 g/l , ethyl acetate >250 g/l, n-hexane 1.31 g/l, methanol 109.9 g/l, methylene chloride >250 g/l, n-octanol 11.31 g/l , o-xylene >250 g/l

Stability: Aqueous hydrolysis DT50 >30 d (pH 5), 38 d (pH 7), 1 d (pH 9).

3. Hazard Identification

- 3.1. **Dangerous Substances:** No any dangerous substances.
- 3.2. **Important Hazardous:** can be harmful if swallowed, inhaled, or absorbed through the skin
- 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 Hazards:** 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 eventual 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 breathe 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. Shape : Liquid as a suspension concentrate

9.2. Colour : White to ivory

9.3. Odour : Typical odor

9.4. Product Use : Agricultural Use .(Insecticide)

9.5. Melting point : N.A

9.6. Boiling Point : N.A

9.7. Specific Gravity : 1.01

9.8. Vapour Pressure : Not available

9.9. Viscosity (CPS) : 270 25°C

9.10. Solubility in water : Forms a white emulsion

9.11. % Persistent foam : Max. 20 ml after 1 min.

9.12. PH : 7-8

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:**

Male Rats : >5000

Female Rats: >1000

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

Rabbits : > 30000

11.3. **Inhalation** : Single inhalation exposure in rats caused lung noise immediately following exposure. In (4 hrs) LC50 >12mg/L in rats (very low toxicity)

11.4. **Skin irritation:** a slight to mild skin irritant . And is a skin sensitizer.

11.5. **Eyes irritation:** Non-Irritant.

11.6. **Skin sensitisation (Guinea pig)** : Dermal sensitizer

11.7. **Ingestion** : Single oral doses caused gait

abnormalities, incoordination, hypoactivity, convulsion, tremors, hypothermia, hair loss, laboured respiration, ocular discharge, and vocalisations in rats

12. Ecological Data

12.1. **Fish** : 96 hour LC50-Rainbow trout :0.65 mg/L , Bluegill sunfish :0.90mg/L , 48hour LC50-**Daphnia magna** :0.60mg/L , **Algae** EC50 (120hr.) >0.11mg/L . **Aquatic photolysis** 3.8 days (Ph 5) (9.1A) Very toxic to aquatic organisms . Avoid contamination of any water supply with chemical or empty container . DT50 in tama silt loam soil=17days .

Kow Log P=4.65 . **Worms** LC50(14days) > 1.250mg/Kg . Acute Oral LD50-Bobwhite Quail 98mg/kg mallard duck.

Acute Dietary LC50- Bobwhite Quail :808 ppm Acute Dietary LC50 –Mallard Duck : >5650ppm (9.3B)
Bee : LD50(48hr) 0.18µg/bee (contact), oral LD50(48hr) > 1000ppm/bee

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 punctured and destroyed or incinerated.

14. Transport Information

14.1. **RID/ADR**: Not classified.

14.2. **ICAO/IATA**: Not classified.

14.3. **IMO-IMDG code**: Not classified.

14.4. **UN N° (Proper shipping name)**: Unregulated.

15. Regulatory Information

15.1. **Symbol (s)** : Warning

15.2. **R-Phrase** :

R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed

R36/38 : Irritating to eyes and skin.

15.3 **S-Phrase** :

S2 : Keep out of reach of children.

S13 : Keep away from food, drink, and animal feeding stuffs .

S25 : Avoid contact with eyes.

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.

16. Other Information

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