

# Product Safety Data Sheet

## 1. Chemical product and company identification

1.1. *Prepared Date* : Jan. 20 . 2024

1.2. *Product information* : -

Trade name : High class -750 WG

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 ingredients

### 2.1. *Chemical properties (Component substances)*

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

Nicosulfuron 75% w/w (active ingredient) Selective Systemic Herbicide

Anionic / Nonionic surfactants 6% (wetting & Dispersing agents)

Carrier up to 100% w/w.

#### 2.1.1. Nicosulfuron :

**IUPAC name** : 2-(4,6-dimethoxypyrimidin-2-ylcarbamoylsulfamoyl)-N,N-dimethylnicotinamide; 1-(4,6-dimethoxypyrimidin-2-yl)-3-(3-dimethylcarbamoyl-2-pyridylsulfonyl)urea

**CAS No.:** [111991-09-4]

**Mol. wt.:** 410.4

**M.f.:** C<sub>15</sub>H<sub>18</sub>N<sub>6</sub>O<sub>6</sub>S

**Form** : Colourless crystals.

**M.p.:** 169-172 °C V.p. <8 ' 10<sup>-7</sup> mPa (25 °C)

**KOW logP** = -0.36 (pH 5), -1.8 (pH 7), -2 (pH 9)

**Henry** : <4.68 ' 10<sup>-9</sup> Pa m<sup>3</sup> mol<sup>-1</sup> (25 °C)

**S.g./density** : 0.313 (bulk)

**Solubility** : In water 0.07 g/l. In acetone 18, ethanol 4.5, chloroform, dimethylformamide 64, acetonitrile 23, toluene 0.370, hexane <0.02, dichloromethane 160 (all in g/kg, 25 °C).

**Stability** : Hydrolysis DT50 15 d (pH 5); stable at pH 7 & 9. pKa 4.6 (25 °C) F.p. >200 °C (Cleveland open cup)

## 2.12.2 Surfactants:

### 50-100% Anionic Surfactants (lignosulfonate)

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.

## 3. Hazard Identification

Environmentally hazardous material to aquatic organisms. Harmful if swallowed, irritant to eyes and mucous membranes.

## 4. First aid Measures

**General Information:** Immediately remove any clothing soiled by the product.

**4.1. Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**4.2. Skin contact:** Flush skin with soap and water. Remove contaminated clothing. Wash clothing before reuse.

**4.3. Eye contact:** In case of contact, Rinse opened eye for several minutes under running water. Consult a doctor.

**4.4. Ingestion:** If swallowed, call a physician immediately. Further Medical treatment: No product-specific symptoms known. Treatment: No Specific antidote. Symptomatic treatment.

## 5. Fire Fighting Measures

**5.1. Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**5.2. Special Fire Fighting and Protective Equipment:** Firefighters should be equipped with self-contained respiratory protective apparatus to protect against potentially toxic and irritating fumes.

## 6. Accidental Release Measures

**6.1. Person-related safety precaution:** Avoid formation of dust.

**6.2. Spill or leak procedures:** Utilize recommended protective clothing and equipment. Remove all sparking devices or ignition sources. Spills should be swept up and placed in

containers. Spill area can be washed with water. Collect wash water for approved disposal. Keep out of sewers, storm drains, surface or ground water and soil.

## 7. Handling and Storage

**7.1. Handling:** Keep receptacles tightly sealed.

**7.2. Storage:** Store in cool location. Store away from Oxidizing agents. Store in cool, dry conditions in well-sealed receptacles

## 8. Exposure controls , Personal Protections .

**8.1. Personal Protective Equipment:** General protective and Hygienic Measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Educate and train employees in the safe use and handling of this product.

**8.2. Eye Protection Requirements:** Chemical safety goggles.

**8.3. Skin Protection Requirements:** Protective gloves and chemically resistant clothing to minimize skin contact. Employees should wash their hands and face before eating, drinking or using tobacco products.

**8.4. Respiratory Protection Requirements:** In case of brief exposure or low pollution, use respiratory filter device. If intensive or longer exposure, use self-contained respiratory protective devices.

## 9. Physical and chemical properties

**9.1. Form:** Granules

**9.2. Color:** White to brown

**9.3. Odour:** Weak odour

**9.4. Density (g/ml):** Undetermined

**9.5. pH:** 6-8

**9.6. Flash point:** Not applicable

**9.7. Solubility:** 100%

## 10. Fire Fighting Measured

10.1. Flash Point : Not applicable

10.2. Extinguishing Media : Water fog, carbon dioxide, foam, dry chemical

10.3. Flammable Limits in Air - Lower (%): Not applicable

10.4. Flammable Limits in Air - Upper (%): Not applicable

## 11. Toxicological Information

**11.1. Acute oral LD50:** > 5000 mg/kg

**11.2. Acute dermal LD50:** >2000 mg/kg

**11.3. Acute inhalation LC50:** >5,9 mg/ℓ

**11.4. Skin contact:** No irritating effect

**11.5. Eye contact:** Mild irritant to eyes and mucous membranes

**11.6. Sensitization:** No sensitizing effect

## 12. Ecological Data

**12.1. Fish and other aquatic organisms:** Nicosulfuron has a low to moderate toxicity to fish and aquatic invertebrates and algae but of high toxicity to higher aquatic plants. Toxicity is increased by the presence of surfactants (in formulated products). Transformation products of Nicosulfuron are not toxic to fish or invertebrates. [Active ingredient information]

**12.2. Fish Bluegill sunfish:** LC50 >1000 mg/ℓ (96h)

**12.3. Rainbow trout:** LC50 >1000 mg/ℓ (96h)

**12.4. Daphnia:** Acute toxicity (48h): LC50 = 1000 mg/ℓ

**12.5. Bees:** Acute contact toxicity LD50 >76μg/bee

**12.6. Algae Selenastrum capricornutum:** 100 mg/ℓ NOEC (96h)

## 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

**14.1. UN NUMBER :** 3077

**14.2. ADR/IRD: Proper shipping name:** Environmentally hazardous substance, solid, N.O.S (contains Nicosulfuron 750 g/kg)

**14.3. Packaging group:** III

**14.4. Class:** 9 IMDG/IMO



**14.5. Packaging group:** III

**14.6. Class:** 9

**14.7. Proper Shipping name:** Environmentally Hazardous Substance, solid, N.O.S.  
(contains Nicosulfuron 750 g/kg)  
MARINE POLLUTANT

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## 15. Regulatory Information

**Symbol:** Xn

**15.1. Indication of danger:** Environmentally hazardous substance

**15.2. Risk phrases:**

R 22 Harmful if swallowed

R 36 Irritating to eyes

R 51 Toxic to aquatic organisms

**15.3. Safety phrases:**

S 2 Keep out of reach of children

S 7 Keep container tightly closed

S 25 Avoid contact with eyes

S 29 Do not empty into drains

S 39 Wear eye/face protection

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## 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.