

Product Safety Data Sheet

1. Chemical product and company identification

1.1 **Prepared Date:** May. 16.2020

1.2 **Production Information:**

Trade Name: Deltaride 200 SP

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

Chemical properties (Component Substances) :

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

- **Acetamirid:** 20% w/w (active ingredient) systemic insecticide
- **Anionic / Nonionic Surfactants:** 8% w/w (Wetting & dispersing agents)
- **Carrier up to 100% w/w .**

2.1. Acetamiprid

(E)-N¹- [(6-chloro-3- pyridyl) methyl] –N²-cyano –N¹-methylacetamidine.

CAS No: [135410-20-7]

Form: White powder. **M.P:** 98.9°C.

Solubility: 4250mg/L in water; soluble in acetone, methanol, ethanol, dichloromethane, chloroform, acetonitrile, and tetrahydrofuran.

Stability: Stable in buffered solutions at pH 4,5,7. Degraded slowly at pH 9 and 45°C. Stable under sunlight.

Mol. wt: 222.7 **Mol. Formula:** C₁₀H₁₁Cl N₄.

Vapour Pressure: < 1 X 10⁻³ mPa (25 °C), **K_{ow}:** log P= 0.8 (25 °C) .

S.G./ Density: 1.33 (20 °C) **Henry:** < 5.3 x 10⁻⁸ Pam³ mol⁻¹ (calc.)

2.2 Surfactants:

Anionic Surfactants (lignosulfonate) 50-100%

Anionic surfactants 10-25%

Form: Powder **pH:** 8 (5% H₂O)

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

3.2. Symptoms relating to use: Prolonged and reported exposure may cause skin irritation, conjunctivities and bronchitis.

4. First aid Measures

4.1. Precaution: 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 make 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 breathe 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:** Grey.
- 9.3. **Melting point (C°):** Not applicable. (Decomposes before melting).
- 9.4. **Bulk Density (gm/cm³):** 0.41 gm/cm³
- 9.5. **pH (1% aq. Susp):** 6.8
- 9.6. **Flash point:** Not determined.
- 9.7. **Auto-ignition temperature (C°):** Not available
- 9.8. **Suspensibility:** Not applicable
- 9.9. **Wettability:** 20 Sec.

10. Stability and Reactivity

- 10.1. **Hazardous decomposition products:** Elevated temperature, acid, moisture and oxygen break down the product and induce flammable and toxic gas.
- 10.2. **Hazardous properties:** Slightly fire hazard when exposed to heat end flame.

11. Toxicological Information (Acetamiprid Technical)

MAMMALIAN TOXICOLOGY:

- 11.1. **Oral** Acute oral LD₅₀ for male rats 217, female rats 146, male mice 198, female mice 184mg/kg.
- 11.2. **Skin and eye** Acute percutaneous LD₅₀ for male and female rats > 2000mg/kg. Non-irritating to skin and eyes (rabbits); not a skin sensitizer (guinea pigs). **Inhalation** LC₅₀(4 h) for male and female rats > 0.29mg/l.
- 11.3. **NOEL** (2y) for rats 7.1mg/kg b.w.; (18 mo) for mice 20.3 mg/kg b.w.; (1y) for dogs 20mg/kg b.w.
- 11.4. **Other** Negative in the Ames test.

12. Ecological Data

- 12.1. **Birds** LD₅₀ for bobwhite quail 180mg/kg. LC₅₀ for bobwhite quail > 5000ppm.
- 12.2. **Fish:** LC₅₀ (24-96 H) for carp >100mg/l.
- 12.3. **Daphnia** LC₅₀ (24 h) >200mg /l.
- 12.4. **Algae** EC₅₀ (72 h) >98.3mg/l; NOEC (72 h) 98.3 mg/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 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):** T: Toxic.

15.2. **R-Phrase:** R24/25: Toxic in contact with skin and if swallowed.
R36/37: Irritating to eyes and respiratory system and skin.

15.3. **S-Phrase:** S22: Don't breath dust.
S36/37/39: Wear suitable protective clothing, gloves and eye/ face protection.
S45: Incase of accident or if you feel unwell, seek medical advice immediately.

16. Other Information

16.1. I hereby declare that the information furnished in this form is true and correct according to the today state of the art. I guarantee that any consignment of the product entering the country whether for experimental or commercial use will confirm with the requirements stated herewith, providing that the uses and precautionary measures recommended by the company are followed. The company is committed to inform the country of new findings, which are of relevance to human or environmental safety.