

Product Safety Data Sheet

1. Chemical product and company identification

1.1. **Prepared Date:** November. 3. 2024

1.2. **Production Information:**

Trade Name: Pyrodon-200 WP.

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

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.

Pyridaben 20% w/w (active ingredient)

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

Carrier up to 100% w/w.

2.1.1. **Pyridaben:**

Common name : pyridaben (BSI, draft E-ISO)

IUPAC name : 2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one

Chemical Abstract name 4-chloro-2-(1,1-dimethylethyl)-5-[[[4-(1,1-dimethylethyl)phenyl]methyl]thio]-3(2H)-pyridazinone

CAS RN : [96489-71-3] Development codes NC-129; NCI-129 (both Nissan); BAS-300I (BASF)

Mol. wt.: 364.9

M.f.: C₁₉H₂₅ClN₂O₂S

Form : Colourless crystals.

M.p.: 111-112 °C V.p. 0.25 mPa (20 °C)

KOW logP = 6.37 (23±1 °C, distilled water)

S.g./density: 1.2 (20 °C)

Solubility: In water 0.012 mg/l (24 °C). In acetone 460, ethanol 57, hexane 10, benzene 110, xylene 390, cyclohexane 320, n-octanol 63 (all in g/l, 20 °C).

Stability : Stable at 50 °C for 90 d; unstable to light. Stable to hydrolysis for 30 d in the dark (pH 5, 7 and 9, 25 °C).

2.1.2. **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. **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 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 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:** white.
- 9.3. **Melting point (C°):** Not applicable.
- 9.4. **Bulk Density (gm/cm³):** 0.45
- 9.5. **Solubility in water (20°C):** Form asuspention solution.
- 9.6. **Suspensibility (%) w/w:** 80%
- 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. **Oral Acute** :oral LD50 for male rats 1350, female rats 820, male mice 424, female mice 383 mg/kg.

11.2. **Skin and eye**: Acute percutaneous LD50 for rats and rabbits >2000 mg/kg. Non-irritant to eyes and skin (rabbits). Non-sensitising to skin (guinea pigs).

11.3. **Inhalation**: LC50 for male rats 0.66, female rats 0.62 mg/l air.

11.4. **NOEL** (78 w) for mice 0.81 mg/kg daily; (52 w) for dogs 0.5 mg/kg daily.

11.5. Other Non-mutagenic in Ames, DNA repair, in vitro chromosomal (Chinese hamster), and mouse micronucleus tests; non-teratogenic in rats and rabbits.

11.6. **Toxicity class** WHO (a.i.) III (20 WP); EPA (formulation) I (75 WP)

12. Ecological Data

12.1. **Birds** Acute oral LD50 for bobwhite quail >2250, mallard ducks >2500 mg/kg.

Fish LC50 (96 h) for rainbow trout 1.1-3.1, bluegill sunfish 1.8-3.3 mg/l; (48 h) for carp 8.3 mg/l.

12.2. **Daphnia** EC50 (48 h) 0.59 mg/l (nominal concentration). Algae Does not significantly affect the average specific growth rate of *Selenastrum capricornutum*.

12.3. **Bees** LD50 (oral) 0.55 mg/bee.

12.4. **Worms** LC50 (14 d) 38 mg/kg soil.

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)**: 3077 **UN Class** : 9

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 warrants the quality of this product in the original closed packaging, and of its conformity with authority agreement during 2 years.