



H.O. : 101 / 102, Kanchanganga, Factory Lane, Borivli (West), Mumbai - 400 092, INDIA.

Tel. : 91-22-2898 2133 / 44, 2898 7912 / 14, 2898 4439 / Fax : 91-22-2899 3948 Website : www.heranba.com

Marketing Office : 201/202, Dwarkesh, Above Tribhuvandas Bhimji Jhaveri, L. T. Road, Borivli (W), Mumbai - 400 092, INDIA.

Tel. : 91-22-2833 8443 / 44 / Fax : 91-22-2833 8445 / e-mail : heranba@vsnl.com

MATERIAL SAFETY DATA SHEET **DIFLUBENZURON 25% WP**

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DIFLUBENZURON 25% WP

Chemical class: Benzoylurea

Formulation: Wettable Powder (WP)

Supplier: Heranba Industries Limited

Address: 101/102, Kanchanganga, Factory Lane, Borivli (W), Mumbai - 400 092, INDIA.

Telephone: +91-22-898 7912/14, 2133/44, 4439

Facsimile: +91-22-899 3948.

Website www.heranba.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY	CAS NO.	PROPORTION (%w/w)
Diflubenzuron	35367-38-5	25.00
Other ingredients		Q.S.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION!

MAY CAUSE EYE AND SKIN IRRITATION.

4. FIRST AID MEASURES

Swallowing

If patient is fully conscious, give two glasses of water. Induce vomiting. Obtain medical attention immediately. Do not give milk, oily products, fat or alcohol. Do not give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air. Give artificial respiration if not breathing. Obtain medical attention.

Skin contact

Wash skin with soap and water. Remove contaminated clothing. Wash clothing before re-use. Obtain medical attention if irritation persists.

Eye contact

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point: 110 °C

Hazardous combustion products

Irritating fumes.

Oxides of carbon.



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Oxides of nitrogen.

Special fire fighting procedures

Do not discharge extinguishing waters into streams, rivers and lakes.

Special protective equipment for firefighters

Body covering protective clothing, full "turn-out" gear.

Self-contained breathing apparatus.

Extinguishing media

Suitable: - CO₂

- dry powder

- foam

- water fog

Unsuitable: - water spray

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective equipment.

Environmental precautions

Prevent from entering sewer system, surface water or soil., May be harmful to aquatic life.

Methods for cleaning up

Sweep up and collect in a suitable container for disposal.

7. HANDLING AND STORAGE

HANDLING

Handling precautions

Avoid dust formation. Use only with adequate ventilation.

STORAGE

Storage requirements

Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTION

Respiratory protection

In case of occurrence of dust respiratory protective equipment required.

Hand protection / protective gloves

Chemical resistant protective gloves

Eye protection

Safety glasses with side shields.

Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact.

ENGINEERING CONTROLS

Ventilation

Local exhaust suggested to prevent dust buildup.



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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state Powder

Color White to yellow

Odor Practically odorless

OTHER PROPERTIES

Boiling point Not available

Melting point Not available

Density 2.09 g/cm³ at 25 °C

Bulk density 0.3 g/cm³

Vapor pressure

Solubility in water Dispersible

Flash point > 110 °C

Thermal decomposition NONE

Autoignition temperature > 110 °C

Dynamic viscosity Not applicable

Oxidizing properties Not applicable

10. STABILITY AND REACTIVITY

Stability: This product is stable under normal storage and handling conditions.

Incompatible materials:

Oxidizing agents.

Strong acids.

Strong bases.

Hazardous combustion products:

Irritating fumes.

Oxides of carbon.

Oxides of nitrogen.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

SWALLOWING

Test results

Acute toxicity: LD50 Rat

Result: > 10.000 mg/kg

SKIN ABSORPTION

Test results

Acute toxicity: LD50 - Rat

Result: > 20.000 mg/kg



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INHALATION

Test results

Acute toxicity: LC50 - Rat

Result: > 3,52 mg/l

Exposure time: 4 h

SKIN CONTACT

Test results

Skin irritation: Species: Rabbit

Classification: Not irritating

EYE CONTACT

Test results

Eye irritation: Species: Rabbit

Result: Mild irritation

SENSITIZATION

Test results: Species: - Guinea pigs

Result: Non sensitizing.

12. ECOLOGICAL INFORMATION

Component ecotoxicology

Diflubenzuron

Acute toxicity fish:

LC50 - Rainbow trout (*Oncorhynchus mykiss*)

Result: > 106,4 mg/l

Exposure time: 96 h

LC50 - Zebra fish (*Brachydanio rerio*)

Result: > 64,8 mg/l

Exposure time: 96 h

Aquatic toxicity to plants:

IC50 - *Selenastrum capricornutum*

Result: > 80 mg/l

Exposure time: 72 h

Acute toxicity to aquatic invertebrates:

EC50 - Water flea (*Daphnia magna*)

Result: 0,0026 mg/l

Exposure time: 48 h

13. DISPOSAL CONSIDERATIONS

General: Avoid discharge to sewers and natural waters. Bury in a landfill or incinerate in a furnace in accordance with applicable national and local regulations.



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14. TRANSPORT INFORMATION

Proper shipping name Environmentally hazardous substance, solid, n.o.s.

Class: 9

UN No. 3077

Packing group III

15. REGULATORY INFORMATION

EC classification

Danger symbol(s) : N

Danger symbol(s) : Classification specific for France: None

Risk phrases : R50 Very toxic to aquatic organisms.

Risk phrases : Classification specific for France: Classification specific for France:

None None

Safety phrases : S2 Keep out of reach of children.

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

S20/21 When using do not eat, drink or smoke.

S29 Do not empty into drains.

S60 This material and/or its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Safety phrases : Classification specific for France: Classification specific for France:

S2 Keep out of reach of children.

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

S3/9/49 Keep only in the original container in a cool, well-ventilated place.

S20/21 When using do not eat, drink or smoke.

S27 Take off immediately all contaminated clothing.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.