

HERANBA

INDUSTRIES LIMITED

An ISO 9001: 2015 Certified Company

OFF: 2nd Floor, A Wing, Fortune Avirahi, Jambli Galli, Jain Derasar Lane, Borivali (W),
Mumbai-400 092, Tel: 91-22-5070 5050 / 2898 2122 / 7912 / 7914, CIN No. L24231GJ1992PLC017315
e-mail : sales@heranba.com web: www.heranba.co.in

MATERIAL SAFETY DATA SHEET

CLOTHIANILIN 50% WDG

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Brand Name : BLOOM

Product Name : Clothianidin 50% WDG

Chemical Name : (E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2nitroguanidine

Molecular Formula : C₆H₈ClN₅O₂S

Use : Insecticide

Restrictions on Use : Use as recommended by the label/Leaflet

Company Identification

Supplier : Heranba Industries Limited

Address : 101/102, Kanchanganga, Factory Lane, Borivli (W), Mumbai - 400092, INDIA.

Telephone : +91-22-898 0860, 28338444, 55774055

Facsimile : +91-22-833 8445

Website : www.heranba.com

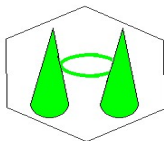
SECTION 2: COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	Proportion
Clothianidin	210880-92-5	50.0% w/w
Other ingredients		Balance

SECTION 3: HAZARD IDENTIFICATION

Risk Phrases : Xn:
R22 – Harmful if swallowed.
R48/22 – Harmful: Danger of serious damage to health by prolonged exposure if swallowed.

N:
R52/53 – Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.



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R57 – Toxic to bees.

Safety Phrases : S22 – Do not breathe dust.
S25 – Avoid contact with eyes.

SUSDP Classification

(Poison Scheduling) : S6 - POISON

ADG Classification : Not subject to the ADG Code when transported by Road and Rail

SECTION 4: FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre.

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

Swallowed : If swallowed, rinse mouth out with water. Seek medical attention. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

Skin contact : If on skin, remove contaminated clothing immediately. Wash with large amounts of water and soap for 15-20 minutes. If irritation persists seek medical attention

Eye contact : If in eyes, immediately irrigate eyes holding eyelids apart, and wash slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention.

Inhalation : If affected, remove from contaminated area to fresh air. If any signs or symptoms occur or persist, seek medical advice.

Note to physician : Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

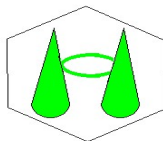
Flashpoint : NA

Flammable limits : NDA

Auto-ignition temperature: 208°C

Dust Explodability : None

Corrosiveness : None



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Oxidising Properties : None

Suitable Extinguishing Media

: Small fire: Use dry chemical, carbon dioxide, water spray or foam.

Large fire: Use water spray, fog or foam.

Hazards from Combustion Products

: May emit toxic gases under fire conditions. Keep fire exposed containers cool by spraying with water.

Precautions for Fire Fighting and Special Protective Equipment

: Ensure respiratory equipment is available. Evacuate immediate area. Advise Fire Brigade of nature of hazard. Wear full protective equipment, including breathing apparatus. Surrounding containers should be cooled using a fine water spray. All run-off must be contained.

Hazchem Code : None.

SECTION 6: ACCIDENTAL RELEASE MEASURE

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP PROCEDURES SPILLS

Stop the source of the spill if it is safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. Wear personal protective equipment as specified in Section 8. Do not allow material to enter sewers or bodies of water.

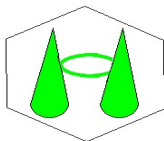
Small Spills (Dry spill) : Reduce airborne dust. Clean up spill immediately. Sweep up material and contain in a refuse vessel for disposal. If necessary, wash the spill area with an alkali detergent and water and absorb and contain for disposal.

Large Spills (Dry Spill) : Reduce airborne dust. Place leaking containers into salvage drums. Clean up spill immediately. Form a barricade around spill and in front of drains or waterways in spill vicinity, using soil or other non-reactive material. Sweep up material and contain in a refuse vessel for disposal. Contact emergency services as required.

Spills in Water : Stop or reduce contamination of any water. Isolate contaminated water. Remove contaminated water for treatment or disposal.

Disposal : Contaminated material must be disposed of in accordance with all State and/or Local regulations.

SECTION 7: HANDLING AND STORAGE



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Precautions for Safe Handling: DO NOT USE OR STORE near flame, sparks or hot surfaces. Use only in well-ventilated area. Keep container closed. Keep out of reach of children, unauthorized persons and animals. After handling and before eating, drinking or smoking, wash hands, arms and face with soap and water. For personal protection, see Section 8.

Conditions for Safe Storage: Keep out of reach of children, unauthorised persons and animals. Store in the closed, original container in a dry, cool, well-ventilated area, away from direct sunlight. Do not store near food, feedstuffs, fertiliser or seed. Store at ambient temperatures.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

ENGINEERING CONTROLS

Use only in well ventilated areas. Do not inhale dust.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection : Use only in well ventilated areas. Respiratory protection is recommended.

Hand Protection : Wear chemical resistant gloves.

Eye Protection : Avoid contact with eyes. Eye contact can be avoided by wearing protective eyewear.

Skin and Body Protection: Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including gloves, hat, long sleeved shirt, long pants and chemical resistant boots.

Other Information : Wash hands after use. Launder clothes, gloves and face shield or goggles before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Light tan solid granules.

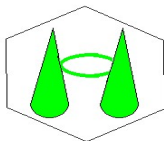
Odour : Odourless

pH : 7.02 at 23°C (1% solution/suspension)

Vapour Density : NDA

Boiling Point : NDA

Bulk Density : 0.52 – 0.54 mg/L



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Viscosity	: NDA
Flashpoint	: Not flammable.
Explosive Limits	: NDA
Ignition Temperature	: 208°C

SECTION 10: STABILITY AND REACTIVITY

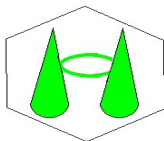
Chemical Stability	: Stable under recommended storage and handling conditions (See Section 7).
Thermal Stability	: No decomposition occurring below 150°C.
Conditions to Avoid	: Avoid direct sunlight. Isolate from sources of heat, naked flames or sparks.
Incompatible Materials	: NDA
Hazardous Decomposition Products	: May emit toxic fumes under fire conditions (See also Section 5).
Hazardous Reactions	: None in normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION (TECHNICAL)

ACUTE HEALTH EFFECTS (Formulated Product)

Toxicology

Swallowed	: MODERATELY TOXIC. (LD50 (male and female rat) = 1628.3 mg/kg) (LD50 (male mouse) = 479.6 mg/kg; LD50 (female mouse) = 673.2 mg/kg) Accidental ingestion of small amounts may be harmful.
Skin	: LOW TOXICITY. (LD50 (male and female rat) > 2000 mg/kg) Contact with skin is not expected to be harmful.
Inhalation	: MODERATELY TOXIC. (LC50 rat (4 hour) = 5660 mg/m ³) Inhalation of vapour may be harmful.
Irritation	
Skin	: NON-IRRITANT.



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Eye : SLIGHT IRRITANT.

Sensitisation

Skin : NOT A SKIN SENSITISER.

CHRONIC/CARCINOGENIC HEALTH EFFECTS (Active Ingredient)

Not oncogenic.

OTHER TOXICOLOGICAL INFORMATION (Active Ingredient)

Mutagenicity Information

Not mutagenic.

Teratology (Birth Defects) Information

Not teratogenic.

Reproduction Information

Not genotoxic.

SECTION 12: ECOLOGICAL INFORMATION (TECHNICAL)

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

ECOTOXICITY (Active Ingredient)

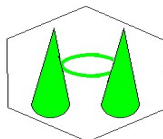
Low toxicity to fish : LC50 Bluegill sunfish (96 hour) > 117 mg/L
LC50 Rainbow trout (96 hour) > 104 mg/L

Range is low toxicity to highly toxic to aquatic invertebrates
: EC50 Daphnia magna (48 hour) > 119 mg/L
LC50 Mysid shrimp (96 hour) = 0.053 mg/L

Range is low toxicity to moderately toxic to birds
: LD50 Bobwhite quail > 2000 mg/kg
LD50 Japanese quail = 430 mg/kg

Highly toxic to bees : LC50 Honey bees (48-hour acute contact) = 0.04426 µg ai/bee
LC50 Honey bees (48-hour acute oral) = 0.00379 µg ai/bee

Moderately toxic to earthworms
: LC50 Earthworm (14-day) = 13.21 mg/kg dry soil



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ENVIRONMENTAL FATE (Active Ingredient)

Environmental chemistry and fate studies indicate aquatic photolysis is the most rapid route for the environmental degradation of clothianidin.

SECTION 13: DISPOSAL INFORMATION

This material must be disposed of as a hazardous waste. Disposal should be in accordance with local, national or state regulations.

Contaminated Packaging: Rinse containers before disposal. Add rinsing to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. DO NOT burn empty containers.

SECTION 14: TRANSPORT INFORMATION

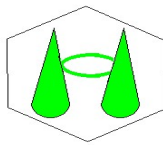
Road/Rail	: Not subject to the ADG Code when transported by Road or Rail in packagings; IBC's; or any other receptacle not exceeding 500 kg(L), (ADG Special Provision AU01).
Sea/Air	: Classified as dangerous in the meaning of Sea (IMDG) and Air (ICAO/IATA) transport regulations.
Proper Shipping Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Clothianidin)
Class	: 9
Sub Risk Class	: Not applicable
UN Number	: 3077
Hazchem Code	: 2Z
Packing Group	: III SECTION

15: REGULATORY INFORMATION

Follow local rules and regulations.

SECTION 16: OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other



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warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.

Date: 06.12.2024