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Material Safety Data Sheet

Clothianidin

Section 1: Chemical Product and Company Identification

Product Name: Clothianidin

CAS#: 210880-92-5

Chemical Formula: C₆H₈ClN₅O₂S

Molecular Weight: 249.01

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

Color: white to off-white liquid

Odor: faint characteristic odor

Contact Information for Emergency: (0086) 551 65418681

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Section 2: Composition and Information on Ingredients

Clothianidin	50.0%
Other	50.0%

Section 3: Hazards Identification

Cautionharmful if swallowed or absorbed through skin. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mist. Keep out of reach of children.

Eye: this product is expected to cause minimal or no eye irritation. The expected adverse health effects resulting from an exposure may include redness and possibly some minor swelling..

Skin: this product is minimally toxic when absorbed through the skin. This product can cause brief and/or minor irritation. The expected adverse health effects resulting from an exposure may include redness and possibly some minor swelling. This product is not expected to cause allergic skin reactions.

Ingestion: this product is slightly toxic when ingested.

Inhalation: this product is minimally toxic when inhaled.

Section 4: First Aid Measures

Skin:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Get medical attention immediately if irritation persists.

Eyes:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Inhalation:

In case of inhalation, remove the victim from contaminated atmosphere without exposing yourself. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention immediately.

Ingestion:

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Section 5: Fire and Explosion Data

Flash point: >100°C

Fire and explosion hazards: smoke and fumes are extremely irritating to eyes, nose, throat and lungs.

Extinguishing media

To be used: dry chemical, foam, carbon dioxide and water.

Fire fighting instructions: in the event of fire, wear self-contained breathing apparatus. Isolate hazard area. Prevent use of contaminated buildings, area and equipment until decontaminated.

Section 6: Accidental Release Measures

For spills on land:

Containment:

avoid runoff into storm sewers and ditches that lead to waterways. Contain spilled liquids with dry sorbents.

Cleanup:

clean up spill immediately. Absorb spill with inert material (such as dry sand or earth), then place in a chemical waste container. Wash the area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

For spills in water:

Containment:

this material is miscible in water. Stop or reduce contamination of any water. Isolate contaminated water.

Cleanup:

clean up spill immediately. Absorb spill with inert material. Remove contaminated water for treatment or disposal.

Section 7: Handling and Storage

Handling:

keep out of reach of children and domestic animals. Food utensils such as teaspoons or measuring cups must not be used for food purposes after use in measuring pesticides. Do not contaminate water sources, food or feedstuffs when disposing of leftover material. Do not use on humans, household pests, or livestock. Do not contaminate ornamental fishponds. Do not get in eyes or on clothing.

Storage

keep away from living quarters. Handle and open container with care. Store in an area away from food, feedstuffs, fertilizers and seed. Store in a cool, well-ventilated area away from excessive heat, oxidizers and acids.

Section 8: Exposure Controls/Personal Protection

Engineering controls: use only in well-ventilated areas.

Respiratory protection: approved respirator

Protective gloves: chemical-resistant gloves (barrier laminate, butyl rubber or nitrile rubber).

Eye/face protection: safety glasses with side-shields. Chemical resistant goggles must be worn.

Body protection: consideration must be given both to durability as well as permeation resistance. Wear long-sleeved shirt and long pants.

Section 9: Physical and Chemical Properties

Melting Point: not applicable

Density: 1.263g/cm³

Bulk density: not applicable

Water solubility: miscible

Ph Value: 5-9

Viscosity: 125-126cP(20°C)

Boiling point: about 100°C

Section 10: Stability and Reactivity Data

Chemical stability: stable at normal ambient temperatures.

Incompatibility: oxidizers

Oxidation/reduction properties: not reactive with water, monoammonium phosphate, zinc, and potassium permanganate.

Thermal decomposition: not applicable

Hazardous decomposition products: may form toxic materials such as: carbon dioxide, hydrogen chloride,

oxides of sulfur, oxides of nitrogen, carbon monoxide, various hydrocarbons, etc.

Section 11: Toxicological Information

Contact with the skin: Slightly irritating (rabbits)

Contact with the eyes: Non-irritating (rabbits)

Inhalation: LC50 (rats)>2.13mg/L

Oral: LD50 (rats) =3044mg/kg

Dermal: LD50 (rats)>5000mg/kg

Teratogenicity: did not show teratogenic effects in animal experiments.

Mutagenicity: did not show mutagenic effects in animal experiments.

Section 12: Ecological Information

Effects on birds: Birds Acute oral LD50 (96hr) for quail >2000 mg/kg.

Effects on aquatic organisms: LC50 (96 h) for bluegill >117 mg/l, for rainbow trout >104mg/l

Effects on other organisms: LD50 (contact) =0.044µg/bee(96h). 14days earthworm contact LD50=13mg/kg.

Section 13: Disposal Considerations

Do not flush into surface water or sanitary sewer system. Empty remaining contents. Any disposal practice must be in compliance with government regulations and local authorities.

Section 14: Transport Information

Not applicable.

Section 15: Other Regulatory Information

Not applicable.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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 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.