



Hangzhou Tianlong Biotechnology Co., Ltd.

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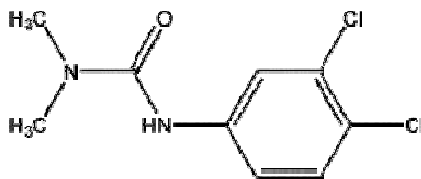
MATERIAL SAFETY DATA SHEET

1. Chemical Product and company Identification

Product Name: Diuron

Molecular Formula: C₉H₁₀Cl₂N₂O

Structural formula:



Molecular Weight: 233

Chemical Name: 1-(3,4-dichlorophenyl) amino-N, N-dimethyl-formamide

CAS No.: 330-54-1

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Diuron	330-54-1	95.0
Other ingredients		5.0

3. Hazards Identification

Route of entry: Inhalation, swallow and dermal absorb.

More important danger for the man: It can cause irritation if inhaled.

Dangers for the environment: It shows low toxicity to birds and fish. It is practically non-toxic to bees.

Physical-chemical dangers: None

4. First Aid Measures

Skin: Wash off in flowing water or shower..

Eyes: Flush eyes with plenty of water. Seek medical attention

Inhalation: Remove to fresh air if effects occur, Consult a physician

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Note to physician: No specific antidote. Supportive care. Treatment based on

judgment of the physician in response to the physician in response to reactions of the patient.

5. Fire-Fighting Measures

Extinguishing media: Powder, water spray, foam, carbon dioxide.

Measures of personal protection: safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants and hats.

Environmental cautions

EX: prevent the contamination of the floor and of beds of water.

6. Accidental Release Measures

Personal cautions: safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants and hats.

Cleaning methods

EX: clear the material in time. Transfer to a properly labeled deposit that will be closed and sealed until the recovery of elimination of the product.

Environmental cautions

EX: prevent the contamination of the floor and of beds of water.

7. Handling and Storage:

Storage: Store in the closed, original container in a dry, cool, well-ventilated area, out of direct sunlight. Store in locked room or place away from children, animals, food, animal feed, seed and fertilizers.

Technical protective measures:

Fire and explosion protection: the area must be far from fire and flammable materials, high temperature and strong oxidizers.

8. Exposure Controls / Personal Protection

Personal protective equipment

Respiratory protection: Such equipment should only be used if the employer has a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing and medical exams.

Protective gloves: safety gloves.

Eye protection: Wear impact resistant eye protection with side shields or goggles. Wear a face shield along with goggles when working with corrosive, highly irritating or toxic substances.

Industrial hygiene: Industrial hygienists are available to answer your questions regarding the control of chemical exposures using exhaust ventilation, special work practices, good housekeeping, good hygiene practices, and personal protective equipment including respirators. In addition, they can help to interpret the results of industrial hygiene survey data.

9. Physical And Chemical Properties

Color: Colorless solid

Odor: odorless

Melting Point: 158-159 degrees C.

Density: 9.78lbs/gal.

Water solubility: 42mg/L @ 25 degrees C.

Other solubility: easy dissolve in hot alcohol; solubility in acetone is 5.3%, a bit dissolves in ethanol, hot benzene and ethyl Acetate.

pH value: 6.5-7.5

Flash point: >200 degree F (nonflammable)

Ignition temperature: not applicable

10. Stability And Reactivity

Conditions to avoid: fire or flame, heat and high temperature.

Products to avoid: not applicable

Thermal decomposition: not applicable

Hazardous reaction: none

11. Toxicological Information

Acute toxicity:

Acute oral: LD50 3400mg/kg (rat)

It is no effect to raise rats using 250ppm dosage for two years

It is no effect to raise dogs using 500ppm dosage for one year

Irritation: No skin irritation and slight eye irritation.

Ingestion: Abdominal pain, Diarrhoea, Nausea.

12. Ecological Information

Effects on birds: slightly toxic to birds. In bobwhite quail, the dietary LC50 is 1730 ppm. In Japanese quail and ring-necked pheasant, it is greater than 5000 ppm. The LC50 is approximately 5000 ppm in mallard ducks.

Effects on aquatic organisms: The LC50 (48 hour) values for diuron range from 4.3 mg/L to 42 mg/L in fish, and range from 1 mg/L to 2.5 mg/L for aquatic invertebrates.

The LC50 (96-hour) is 3.5 mg/L for rainbow trout. Thus, diuron is moderately toxic to fish and highly toxic to aquatic invertebrates.

Effects on other organisms: non-toxic to bees.

13. Disposal Considerations

Spillage disposal: Do not wash away into sewer. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.

14. Transport Information

Class: 6.1

UN No.: 2588

Packing group: III

15. Regulatory Information

Risk phrases:

Harmful if swallowed.

Limited evidence of a carcinogenic effect.

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Safety phrases:

Keep out of the reach of children.

Keep away from food, drink and animal foodstuffs.

Do not breathe dust.

Do not breathe vapour.

Wear suitable gloves.

If swallowed, seek medical advice immediately and show this container or label.

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

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

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.