



Material Safety Data Sheet

Uniroyal Chemical

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MSDS No. A340018

Date Issued: 5/31/01

NOTE TO END-USERS: This MSDS is being provided to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, First Aid Statements and Directions for Use of this product by end-users are contained on the product label and must be followed at all times.

IDENTIFICATION

Trade Name: MICROMITE® 80 WGS

CAS Number: 35367-38-5 (active)

Chemical Name:

Chemical Family: Amide

N-[[[4-chlorophenyl] amino] carbonyl]-2-6-difluorobenzamide 80%
Inerts: 20%
Common Name: Diflubenzuron

SPECIAL REGULATORY HAZARDS

<u>Ingredient</u>	<u>CAS No.</u>	<u>Exposure Limit</u>	<u>OSHA (1910.1200)</u>	<u>EEC*</u>
Diflubenzuron	35367-38-5	ND	Target organ effects	Possible Risk of Irreversible effects Very toxic to aquatic organisms
Kaolin	1332-58-7	10 mg/m ³ (OSHA, ACGIH)	Nuisance Particulate	Not Hazardous

Hazard assessment based on available data.

Transportation: DOT: Haz. Class 9, Misc., ID No. UN3077 - only pkgs equal to or greater than 400 kilos
IMO: Haz. Class 9, Misc., ID No. UN3077 - Marine Pollutant ICAO/IATA: Not Regulated

PHYSICAL DATA

Appearance and Odor: Tan granules; aromatic odor

Solubility: Insoluble in water

Specific Gravity (H₂O=1): NA

Vapor Pressure @ 20°C: NA

Melting Point: NA

Vapor Density (Air = 1): NA

Boiling Point: NA

Volatility @ 70°F: NA

Other Data: pH: 9.86 (1% concentration); Bulk density: 0.49 g/cm³

FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA

Autoignition Temperature: ND

Extinguishing Media: Water, dry chemical

Flammable Limits: ND

Special Fire Fighting Procedures: Protect against inhalation of combustion products.

Unusual Hazards: None identified.

REACTIVITY DATA

Stability: Stable at ambient temperatures and pressures.

Incompatibility: None identified.

Decomposition Products: Oxides of carbon and nitrogen, HCl and HF under burning conditions.

NA = Not Applicable

ND = Not Determined

* European Economic Community

Crompton makes no representation or warranty with respect to the information in this Material Safety Data Sheet. The information is however, as of this date provided, true and accurate to the best of Crompton's knowledge. This list of information is not intended to be all inclusive. Actual conditions of use and handling may require considerations of information other than, or in addition to, that which is provided herein.

SAP#505748

SPECIAL PROTECTION INFORMATION

Engineering Controls: Sufficient ventilation to minimize dust exposure.

Personal Protection Equipment: Avoid all personal contact. Observe good personal hygiene. Chemical resistant gloves, protective clothing and eye protection should be worn when handling. Launder clothing before reuse. In the absence of adequate ventilation, NIOSH-certified respiratory protection should be used as necessary.

NOTE TO END-USERS: The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.

STORAGE, SPILLS AND DISPOSAL INFORMATION

Storage: Store away from sources of direct heat in a dry area.

Spills: If solid, sweep or vacuum. If liquid, absorb on inert material. Use personal protective equipment as outlined above. Keep out of sewers, drains and waterways.

Disposal: In accordance with applicable local, state and federal regulations.

Environmental Information:

Redwing Blackbird: Oral LD50 - 3.76 g/kg - Technical
Trout 96 hr LC50 > 133 mg/l
Daphnia Magna: 48 hr EC50: 0.003 mg/l
Zebrafish 96 hr LC50: > 81 mg/l

These data indicate that diflubenzuron is not toxic to fish and birds.
Diflubenzuron and this formulation are extremely toxic to aquatic invertebrates.

HEALTH RELATED DATA

SPECIFIC HAZARDS: Prolonged exposure may cause methemoglobinemia. The very low acute toxicity suggests that this is not a significant adverse effect. Chronic inhalation may cause lung damage. Individuals with respiratory problems should avoid inhalation exposure.

Primary Route(s) of Entry: Inhalation, skin contact.

First Aid Procedures:
Eye contact: Flush with water for 15 minutes. Get medical attention.
Skin contact: Wash thoroughly with soap and water.
Inhalation: Remove to fresh air.

TOXICOLOGY INFORMATION:

Oral toxicity: LD50 (rats) - >5 g/kg
Dermal toxicity: LD50 (rabbits) - > 2 g/kg
Inhalation toxicity: LC50 (rats) - >5.12 mg/l
Irritation: eye (rabbits) - slight
skin (rabbits) - negative
Sensitization: skin (guinea pig) - negative

These data are for Diflubenzuron Technical:

21 day rabbit dermal study: Doses of 20, 500 and 1000 mg/kg/day. Effects seen on RBC and methemoglobin levels. NOEL = 20 mg/kg/day.

1 year dog feeding study: Doses of 2, 10, 50 and 250 mg/kg/day. Effects seen on body weight, RBC, methemoglobin and sulfhemoglobin levels and liver and spleen weights. NOEL = 2 mg/kg/day.

2 year rat feeding study: Doses of 8, 31, 125 and 500 mg/kg/day. Effects seen on body weight, RBC, methemoglobin and sulfhemoglobin levels, liver and spleen weights and histopathology. NOEL = <8 mg/kg/day. A chronic feeding study at doses up to 8 mg/kg/day demonstrated a NOEL = 2 mg/kg/day.

Mouse oncogenicity study: Doses of 2, 11, 57, 286 and 1429 mg/kg/day. No increase in tumor incidence.

Rat reproduction study: Doses of 0.5, 1, 2 and 8 mg/kg/day. No adult or fetal effects. NOEL = 8 mg/kg/day. An additional study demonstrated a reproductive NOEL = >5 g/kg/day.

Rabbit teratology study: Doses of 1, 2 and 4 mg/kg/day. No effects. An additional study demonstrated a maternal and developmental NOEL = >1 g/kg/day.

Rat teratology study: Doses of 1, 2 and 4 mg/kg/day. No effects. An additional study demonstrated a maternal and developmental NOEL = >1 g/kg/day.

Mutagenicity: Negative in the following assays: Ames reverse mutation, S. cerevisiae point mutation, Mouse lymphoma, Mouse dominant lethal, Balb/3T3 Transformation, Human WI-38 UDS, B. subtilis recombination, CHO Chromosome aberration, Mouse micronucleus.

SARA TITLE III (40 CFR 372) SECTION 313 TOXIC CHEMICALS NOTIFICATION

TOXIC CHEMICAL
Diflubenzuron

CAS #
35367-38-5

% (BY. WT.)
80%