

# **Material Safety Data Sheet**

**Uniroyal Chemical** 

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MSDS No. A320002 Date Issued: 8/29/97 **Date Revised: 1/3/01; Supercedes: 12/13/00** R-4

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: FLORAMITE® CAS Number: 149877-41-8 (active)

Chemical Name: Chemical Family: Carboxylic acid ester

## SPECIAL REGULATORY HAZARDS

IngredientCAS No.Exposure LimitOSHA (1910.1200)EEC\*Kaolin clay1332-58-710 mg/m³, total<br/>5 mg/m³, resp.Nuisance<br/>ParticulateNA

Hydrated amorphous 7631-86-9 6 mg/m³, total Nuisance NA silica Particulate

Hazard assessment based on available data.

Transportation: IATA/ICAO Hazard Class: Not regulated DOT/IMO Hazard Class: 9, Miscellaneous;

ID. No.: UN3077 Marine Pollutant (DOT only Package > or = 882 lbs.)

### PHYSICAL DATA

Appearance and Odor: Very fine light tan to white powder; negligible odor

Solubility: Soluble in organic solvents, insoluble in water Specific Gravity (H2O=1): 1.74 g/cm @ 25°C

Vapor Pressure @ 20°C: ND

Melting Point: ND

Boiling Point: NA

Vapor Density (Air = 1): ND

Volatility @ 70°F: ND

Other Data: NA

#### FIRE AND EXPLOSION HAZARD DATA

Flash Point: >230°F (110°C) Setaflash Autoignition Temperature: ND

**Extinquishing Media:** Water spray, dry chemical. **Flammable Limits:** ND **Special Fire Fighting Procedures:** Protect against inhalation of combustion products.

Unusual Hazards: May form explosive dust air mixtures.

#### REACTIVITY DATA

Stability: Stable at ambient temperatures and pressures.

Incompatibility: None identified.

**Decomposition Products:** None identified.

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.

## SPECIAL PROTECTION INFORMATION

Engineering Controls: Sufficient ventilation to minimize dust exposure. Avoid dust accumulation on building or equipment surfaces. Protect closed handling systems against possible dust explosions.

Personal Protection Equipment: Avoid all personal contact. Observe good personal hygiene. Impervious gloves, protective clothing and eye protection should be worn when handling. In the absence of adequate ventilation, NIOSHcertified 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: Vacuum up using a HEPA filter to avoid creating dust or use floor sweeping compounds to control dust if sweeping. Transfer into proper containers for disposal. Use personal protective equipment as outlined above. Keep out of sewers, drains and any water bodies.

Disposal: In accordance with local, state and federal regulations for disposal of pesticidal waste.

**Environmental Information:** These data are for Bifenazate Technical:

Bluegill Sunfish 96hr LC50 - 0.58 ppm Bobwhite Quail LD50 - 1142 mg/kg Rainbow trout 96hr LC50 - 0.76 ppm Daphnia Magna 48hr EC50 - 0.50 ppm Bobwhite Quail LC50 - 2298 ppm Mallard Duck LC50 - 726 ppm Bifenazate is highly toxic to aquatic organisms.

## **HEALTH RELATED DATA-**

**SPECIFIC HAZARDS:** Contact with eyes may cause irritation.

**Primary Route(s) of Entry:** Eye and skin contact

First Aid Procedures: IF IN EYES: Flush with water for 15 minutes. Get medical attention.

IF ON SKIN: Wash with soap and water.

**IF INHALED:** Remove to fresh air. Get medical attention.

IF SWALLOWED: Get medical attention.

TOXICOLOGY INFORMATION: Oral toxicity: LD50 (rats) - >5 g/kg

> Dermal toxicity: LD50 (rats) - >5 g/kg Inhalation toxicity: LC50 (rats) - >5.2 mg/l

Irritation: Eye (rabbit) - Slight

Skin (rabbit) - Non-irritating

Sensitization: (guinea pig) - Non-sensitizing

#### These data are for Bifenazate:

3 week rat dermal study: Doses of 80, 400 and 1,000 mg/kg/day. Effects seen on body weight, RBC level, spleen weight and histopathology. NOEL = 80 mg/kg/day.

13 week rat feeding study: Doses of 2, 10 and 20 mg/kg/day. Effects seen on food intake, RBC level and spleen, liver and adrenal histopathology. NOEL = 2 mg/kg/day.

1 year dog feeding study: Doses of 1, 10 and 25 mg/kg/day. Effects seen on food consumption and body weight, RBC level and marrow, kidney and liver histopathology. NOEL = 1 mg/kg/day.

2 year rat feeding study: Doses of 1, 4 and 8 (females) or 10 (males) mg/kg/day. Effects seen on body weight, RBC level and spleen histopathology. No increase in tumor incidence. NOEL = 1 mg/kg/day.

Mouse oncogenicity study: Doses of 1.4, 14 and 25 (females) or 32 (males) mg/kg/day. Effects seen on body weight and RBC and leukocyte levels. No increase in tumor incidence.

Rat reproduction study: Doses of 1, 4 and 10 mg/kg/day. Effects seen on parental body weight. No reproductive effects. NOEL = 1 mg/kg/day.

Rabbit teratology study: Doses of 10, 50 and 200 mg/kg/day. No effects seen. NOEL = > 200 mg/kg/day.

Rat teratology study: Doses of 10, 100 and 500 mg/kg/day. Effects seen on maternal body weight and clinical signs. No teratogenic effects.

Mutagenicity: Negative in the following assays: Ames reverse mutation, Mouse lymphoma, CHO Chromosome aberration and Mouse micronucleus.