1

FLORAMITE[®] on the product label. For normal use of this product, Uniroyal Chemical Company, Inc. World Headquarters Middlebury, CT 06749 MSDS No. A320002 UNIROYAL Emergency Phone: (203) 723-3670 dry area. **CHEMTREC Transportation Emergency Phone: 1-**800-424-9300 SAFETY DATA Information: (203) 573-3303 Date Issued: 8/29/97 Date Revised: 6/7/00; Supercedes: 6/4/99 R-2 NOTE TO END-USERS: This MSDS is being provided bodies to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, Statements of Practical Treatment and Directions for Use of this product by end-users are contained on the nazate Technical: product label and must be followed at all times. **IDENTIFICATION** Trade Name: FLORAMITE® CAS Number: 149877-41-8 (active) Chemical Family: Carboxylic acid ester Chemical Name: Hvdrazine carboxvlic acid. 2-(4-methoxy-[1,1biphenyl]-3-yl)-1-methylethyl ester 50% 50% Inerts: . . . irritation SPECIAL REGULATORY HAZARDS First Aid Procedures: OSHA (1910.1200) Exposure Limit CAS No. Ingredient EEC* medical attention. Kaolin clav 1332-10 Nuisance NA mg/m³ total 58-7 Particulate tion 5 mg/m^3 resp. Hydrated 7631 6 mg/m^3 Nuisance NA amorphous silica 86-9 total Particulate Hazard assessment based on available data. Transportation: IATA/ICAO Hazard Class: Not reg ulated 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 mg/kg/day. water Melting Point: ND Boiling Point: NA 2 mg/kg/day. Other Data: NA

Specific Gravity (H2O=1): 1.74 g/cm @ 25°C Vapor Pressure @ 20°C: ND Vapor Density (Air = 1): ND Volatility @ 70°F: ND

FIRE AND EXPLOSION HAZARD DATA

Flash Point: >230°F (110°C) Setaflash Extinguishing Media: Water spray, dry chemical. Autoignition Temperature: ND Flammable Limits: ND

Special Fire Fighting Procedures: Protect against inhalation of combustion products. Unusual Hazards: May form explosive dust air mix-

tures

REACTIVITY DATA

Stability: Stable at ambient temperatures and pressures

Incompatibility: None identified.

Decomposition Products: None identified.

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, NIOSH-certified respiratory protection should be used as necessary.

NOTE TO END-USERS: The employee protection recommendations on this MSDS may differ from those

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 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 Disposal: In accordance with local, state and federal regulations for disposal of pesticidal waste. Environmental Information: These data are for Bife-Bluegill Sunfish 96 hr LC50 - 0.58 ppm Rainbow trout 96 hr LC50 - 0.76 ppm Daphnia Magna 48 hr EC50 - 0.50 ppm Bobwhite Quail LD50 - 1142 mg/kg 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 Primary Route(s) of Entry: Eye and skin contact IF IN EYES: Flush with water for 15 minutes. Get IF ON SKIN: Wash with soap and water. IF INHALED: Remove to fresh air. Get medical atten-IF SWALLOWED: Get medical attention. TOXICOLOGY INFORMATION: Oral toxicity: LD₅₀ (rats) - >5,000 mg/kg Dermal toxicity: LD₅₀ (rats) - >5,000 mg/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 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 = 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: 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 NA = Not Applicable ND = Not Determined European Economic Community Uniroyal 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 Uniroyal'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.