



For Use in the United States Only
Material Safety Data Sheet

Uniroyal Chemical Company, Inc.
World Headquarters
Middlebury, CT 06749

UNIROYAL Emergency Phone: (203) 723-3670
CHEMTREC Transportation Emergency Phone: 1-800-424-9300
SAFETY DATA Information: (203) 573-3303

MSDS No. A325009

Date Issued: 10/15/85
Date Revised: **10/1/98**; Supercedes: **6/18/96**

R-5

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, Statements of Practical Treatment 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: HARVADE® 5F

CAS Number: 55290-64-7 (active)

Chemical Name:

Chemical Family: Dithiin

(2,3-Dihydro-5,6-dimethyl-1,4-dithiin-1,1,4,4-tetraoxide) 48%

Inerts: 52%

Common Name: dimethipin

SPECIAL REGULATORY HAZARDS

<u>Ingredient</u>	<u>CAS No.</u>	<u>Exposure Limit</u>	<u>OSHA (1910.1200)</u>	<u>EEC*</u>
Product	Mixture	ND	Sensitizer	Sensitizer Harmful

Hazard assessment based on available data.

Transportation: IMO Hazard Class: 9, Miscellaneous; ID No. UN3082 Marine Pollutant
DOT/IATA/ICAO: Not Regulated

PHYSICAL DATA

Appearance and Odor: Tan, viscous liquid, slight odor

Solubility: Dispersible in water

Specific Gravity (H₂O=1): 1.24

Vapor Pressure @ 20°C: 11 mmHg

Melting Point: NA

Vapor Density (Air = 1): ND

Boiling Point: 98°C (210°F)

Volatility @ 70°F: ND

Other Data: pH: 8.0

FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 100°C (212°F) TCC

Autoignition Temperature: 401°C (754°F)

Extinguishing Media: Water spray, dry chemical.

Flammable Limits: ND

Special Fire Fighting Procedures: Protect against inhalation of combustion products. Contain run-off.

Unusual Hazards: None identified.

REACTIVITY DATA

Stability: Light stable. Will thicken irreversibly when heated.

Incompatibility: Strong acids or alkalis.

Decomposition Products: Oxides of sulfur under burning conditions.

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.

SPECIAL PROTECTION INFORMATION

Engineering Controls: Sufficient ventilation to minimize vapor 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, use NIOSH-certified **respiratory protection**.

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. See package label for details.

Spills: Absorb on inert material. Shovel into secure containers for proper disposal. Use personal protective equipment as outlined above.

Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Environmental Information:

HARVADE TECHNICAL

Bluegill Sunfish: 96 hr LC50 - 21 ppm

Rainbow Trout: 96hr LC50 - 53 ppm

Daphnia Magna: 96 hr LC50 - 21 ppm

Mallard Duck 8 day Dietary LC50 - >5000 ppm

Bobwhite Quail 8 day Dietary LC50 - >5000 ppm

Mallard Duck LD50 - 896 mg/kg

These data indicate that HARVADE Technical is moderately toxic to fish and slightly toxic to birds.

Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from treated area.

HEALTH RELATED DATA

SPECIFIC HAZARDS: May be harmful by oral exposure. Contact with skin may cause some irritation. Minimal, repeated skin contact may cause sensitization, accompanied by skin rash. There are no known medical conditions that are aggravated by exposure to this material.

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

First Aid Procedures: **IF SWALLOWED:** Drink two large glasses of water and induce vomiting. Contact a physician.

IF ON SKIN: Wash affected area with plenty of soap and water.

IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Contact a physician.

IF INHALED: Remove to fresh air; if abnormal symptoms develop, contact a physician.

TOXICOLOGY INFORMATION:

Oral toxicity: LD50 (rats) - 1.66 g/kg

Dermal toxicity: LD50 (rabbits) - > 2.0 g/kg

Inhalation toxicity: LC50 (rats) - > 3.5 mg/l

Irritation: eye (rabbits) - negative
skin (rabbits) - slight

Sensitization: skin (guinea pigs) - positive

Mutagenicity: Ames *Salmonella* - negative (Harvade Technical)

Subchronic: The feeding to rats and dogs of up to 1000 ppm Harvade Technical did not produce significant adverse effects.

Teratogenicity: The feeding to pregnant rats of up to 160 mg/kg/day Harvade Technical did not produce evidence of teratogenicity.

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

TOXIC CHEMICAL
Dimethipin

CAS %
55290-64-7

% (BY. WT.)
48