



Material Safety Data Sheet

Uniroyal Chemical

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MSDS No. A312008

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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: COMITE® *

CAS Number: 2312-35-8 (active)

Chemical Name:

Chemical Family:

sulfurous acid, 2-[4(1,1-dimethyl-ethyl)phenoxy]cyclohexyl-2-propynylester (CA) 73.6%

Inerts: 24.6%

Common Name: Propargite

Alternate Chemical Name: 2-(4-(1,1-dimethylethyl)phenoxy)cyclohexyl 2-propynyl sulfite (9 C I)

*Applicable to Comite® (California only)

SPECIAL REGULATORY HAZARDS

Ingredient Product	CAS No. Mixture	Exposure Limit ND	OSHA (1910.1200) Flammable, Irritant	EEC* Highly Flammable, Risk of serious damage to eyes Irritant, Very Toxic Possible risk of irreversible effects Irritant Highly Flammable
Propargite	2312-35-8	ND	Corrosive, Highly Toxic Irritant, Carcinogen	
Isopropanol	67-63-0	400 ppm, TWA 500 ppm, STEL (OSHA, ACGIH)	Target organ effects	

Hazard assessment based on available data.

Transportation: DOT/IATA/ICAO Hazard Class: 3, Flammable liquid; ID No.: UN1993

IMO Hazard Class: 3.3, Flammable liquid, ID No.: UN1993 Marine Pollutant

PHYSICAL DATA

Appearance and Odor: Brown-black liquid; slight sulfurous odor.

Solubility: Emulsifies in water

Specific Gravity (H₂O=1): 1.08

Vapor Pressure @ 20°C: 20 mm Hg (Isopropanol)

Melting Point: NA

Vapor Density (Air = 1): ND

Boiling Point: 56.2°C (133.2°F)(initial)

Volatility @ 70°F: 7%

Other Data: Evaporation rate (Butyl acetate = 1) 0.13; Bulk Density 9 lbs./gal.

FIRE AND EXPLOSION HAZARD DATA

Flash Point: 25.4°C (77.8°F) Setflash

Autoignition Temperature: 450°C (842°F)

Extinguishing Media: Water spray, dry chemical.

Flammable Limits: LEL: 0.071 oz./ft.³ UEL: ND

Special Fire Fighting Procedures: Avoid breathing fumes. Wear air-supplied breathing apparatus.

Unusual Hazards: Flammable liquid.

REACTIVITY DATA

Stability: May darken with light. Slow decomposition, solvent loss with heat.

Incompatibility: Deteriorates styrene-butadiene rubber.

Decomposition Products: Oxides of sulfur, possibly phenolics 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#501059

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: Flammable, keep away from heat and open flame.

Spills: Remove ignition sources. Absorb on inert material. Shovel into secure containers for proper disposal. Use personal protective equipment as outlined above. Reportable Quantity: 10 lbs. (Propargite)

Disposal: In accordance with EPA/RCRA regulations 40CFR 261.21 (a) (1) D001 (ignitability) Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Environmental Information: This pesticide is toxic to fish. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Drift of runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

PROPARGITE

Bluegill Sunfish: 96 hr LC50 - 0.168 ppm	Mallard Duck: LC50 - >4640 ppm
Rainbow Trout: LC50 - 0.118 ppm	Bobwhite Quail: LC50 - 3401 ppm
Daphna Magna 48 hr. LC50 - 0.092 ppm	Minnow 96 hr. LC50 - 0.06 ppm
Catfish 96 hr. LC50 - 0.04 ppm	Shrimp 96 hr. LC50 - 0.101 ppm

These data indicate that PROPARGITE is highly toxic to aquatic species.

HEALTH RELATED DATA

SPECIFIC HAZARDS: Toxic by inhalation. Moderately toxic by oral exposure. Corrosive to eyes. Contact with skin can cause severe irritation. Propargite has been shown to be an experimental animal carcinogen.

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

First Aid Procedures:
IF IN EYES: Immediately flush eyes with plenty of water. See a physician.
IF INHALED: Remove person to fresh air. Apply artificial respiration if symptoms indicate. Call a physician.
IF ON SKIN: Wash thoroughly with soap and water. Get medical attention.
IF SWALLOWED: Do not induce vomiting. Drink promptly a large quantity of milk, egg whites or gelatin solution. If these are not available drink large quantities of water. Avoid alcohol. Call a physician or Poison Control Center immediately.

TOXICOLOGY INFORMATION:

Oral toxicity: LD50 (rats) - 600 mg/kg	Dermal toxicity: LD50 (rabbits) - > 5000 mg/kg
Inhalation toxicity: LC50 (rats) - 0.75 mg/l	Irritation: eye (rabbits) - corrosive
Mutagenicity: (Propargite) Ames <i>Salmonella</i> - negative	skin (rabbits) - severe
CHO HGPRT - negative	Sensitization: guinea pig - negative
Mouse Micronucleus - negative	
Rat hepatocyte UDS - negative	

These Data are Propargite: 21 day rabbit dermal study: Doses of 0.1, 1, 10 and 100 mg/kg/day. Effects seen on body weight, clinical chemistry, hematology, skin. NOEL = 1 mg/kg/day.

13 week rat feeding study: Doses of 5, 50 and 100 mg/kg/day. Effects seen on body weight, food intake, clinical chemistry, hematology. NOEL = 5 mg/kg/day.

1 year dog feeding study: Doses of 4, 312 and 469 mg/kg/day. Effects seen on body weight, food intake, hematology, and lung thymus and bone marrow histopathology. NOEL = 4 mg/kg/day.

2 year rat feeding study: Doses of 2.5, 4, 20 and 40 mg/kg/day. Effects seen on body weight, jejunal tumor incidence. NOEL = 4 mg/kg/day.

Mouse oncogenicity study: Doses of 7, 23, 71 and 143 mg/kg/day. No increase in tumor incidence.

Rat reproduction study: Doses of 4, 20 and 40 mg/kg/day. Effects seen on adult and pup body weight. No reproductive effects. NOEL = 4 mg/kg/day.

Rabbit teratology study: Doses of 2, 4, 6, 8 and 10 mg/kg/day. Effects seen on adult body weight, incidence of abortion and fetal malformations (fused sternebrae). NOEL = 6 mg/kg/day.

Rat teratology study: Doses of 6, 12, 18, 25 and 105 mg/kg/day. Effects seen on adult body weight incidence of pup mortality. No teratogenic effects. NOEL = 25 mg/kg/day.

Mutagenicity: Negative in the following assays: Ames reverse mutation *S. cerevisiae* point mutation. *E. coli* WP2 hcr reverse mutation, *B. subtilis* recombination, CHO Chromosome aberration, Rat hepatocyte UDS, CHO HGPRT, Mouse micronucleus.

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

TOXIC CHEMICAL
isopropanol
propargite

CAS #
67-63-0
2312-35-8

% (BY. WT.)
up to 5.0
up to 73.6

Carcinogenic per NTP _____ IARC _____ OSHA _____ EPA (Propargite)