



Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Penetrating Threadlocker

Product Number (s): 04525, 04526, 04527

Manufactured By:

CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-4620
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: green liquid, mild odor

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health Effects:

EYE: May cause mild irritation including redness, stinging and tearing.

SKIN: Acute contact is not expected to cause health effects. Prolonged contact may cause dermatitis in sensitive individuals.

INHALATION: No health effects expected by inhalation.

INGESTION: Swallowing small amounts of this product is not expected to cause noticeable health effects.

CHRONIC EFFECTS: Unknown

TARGET ORGANS: None known

Medical Conditions Aggravated by Exposure:

skin conditions

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Dimethacrylate ester	25852-47-5	65 – 75
Bisphenol A fumarate resin	39382-25-7	20 - 30
Saccharin	81-07-2	1 – 3
Polyethylene	9002-88-4	1 – 3
Cumene hydroperoxide	80-15-9	1 – 3
Amorphous silica	112945-52-5	0.1 - 1

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.

Note to Physicians: None

Section 5: Fire-Fighting Measures

Flammable Properties: As defined by OSHA, this product is a Class IIIA combustible liquid.

Flash Point:	150 – 200 F (TCC)	Upper Explosive Limit:	ND
Autoignition Temperature:	ND	Lower Explosive Limit:	ND

Suitable Extinguishing Media: Foam, dry chemical or carbon dioxide

Products of Combustion: Irritating organic vapors

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Avoid contact with skin and eyes. Do not heat product as heating will produce irritating vapors. Do not use near sparks, flame or other sources of ignition.

Storage Procedures: Store in a cool dry area out of direct sunlight.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Dimethacrylate ester	NE	NE	NE	NE	NE		
Bisphenol A fumarate resin	NE	NE	NE	NE	NE		
Saccharin	NE	NE	NE	NE	NE		
Polyethylene	NE	NE	NE	NE	NE		
Cumene hydroperoxide	NE	NE	NE	NE	1	AIHA	ppm
Amorphous silica	NE	20	NE	NE	NE		mppcf
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations

Respiratory Protection: None required for normal work where adequate ventilation is provided. Use a NIOSH-approved cartridge respirator with organic vapor cartridge if vapors exceed exposure limits. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as rubber polyethylene or neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid
Color: green
Odor: mild
Specific Gravity: 1.04
Initial Boiling Point: > 300 F
Freezing Point: ND
Vapor Pressure: < 5 mmHg @ 20 C
Vapor Density: ~ 3 (air = 1)
Evaporation Rate: NA (ether = 1)
Solubility: negligible in water
pH: NA
Volatile Organic Compounds: wt %: 31.5 g/L: 321 lbs./gal: 2.72

Section 10: Stability and Reactivity

Stability: Stable
Conditions to Avoid: None known
Incompatible Materials: None known
Hazardous Decomposition Products: irritating vapors
Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

ACUTE EFFECTS

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Saccharin	LD50	17 g/kg	Oral	Mouse
Polyethylene	LC50	12 g/m ³ /30M	Inhalation	Mouse
Cumene hydroperoxide	LD50	382 mg/kg	Oral	Rat

CHRONIC EFFECTS

Carcinogenicity:

	<u>Component</u>	<u>Result</u>
OSHA:	None listed	
IARC:	None listed	
NTP:	None listed	

Mutagenicity: No information available

Other: None

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: Cumene hydroperoxide – 96 Hr LC50 Oncorhynchus mykiss: 3.9 mg/L [static]
24 Hr EC50 Daphnia magna: 7 mg/L
Persistence / Degradability: No information available
Bioaccumulation / Accumulation: No information available
Mobility in Environment: No information available

Section 13: Disposal Considerations

Disposal: This product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33)

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Not Regulated

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: Saccharin (100 lbs)
Cumene hydroperoxide (10 lbs)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories: Fire Hazard No
Reactive Hazard No
Release of Pressure No
Acute Health Hazard No
Chronic Health Hazard No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting

requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
Cumene hydroperoxide (< 3%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: NONE

State Right to Know:

New Jersey: 81-07-2, 80-15-9
Pennsylvania: 81-07-2, 80-15-9
Massachusetts: 81-07-2, 80-15-9
Rhode Island : 80-15-9

Additional Regulatory Information: None

Section 16: Other Information

NFPA: Health: 1 Flammability: 1 Reactivity: 1
HMIS: Health: 1 Flammability: 1 Reactivity: 1 PPE: B

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Changes since last revision: MSDS reformatted in accordance with ANSI Z400.1-2004

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

CAS: Chemical Abstract Service NA: Not Applicable
ppm: Parts per Million ND: Not Determined
TCC: Tag Closed Cup NE: Not Established
PMCC: Pensky-Martens Closed Cup g/L: grams per Liter
PPE: Personal Protection Equipment lbs./gal: pounds per gallon
TWA: Time Weighted Average STEL: Short Term Exposure Limit
OSHA: Occupational Safety and Health Administration mppcf: Millions of particles per cubic foot
NIOSH National Institute of Occupational Safety & Health
ACGIH American Conference of Governmental Industrial Hygienists
AIHA American Industrial Hygiene Association