



Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Freeze-Off® Super Penetrant (aerosol)

Product Number (s): 05002, 05010

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) 272-8963
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Reddish liquid, pine odor

DANGER

Extremely flammable. Harmful or fatal if swallowed. Eye irritant. Contents under pressure.

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

Potential Health Effects:

- EYE:** Liquid may cause mild irritation including stinging, tearing and redness.
- SKIN:** Liquid may cause mild to moderate skin irritation including redness, itching, and burning. Repeated contact may cause drying and cracking of skin. Product becomes colder the longer it is sprayed and may cause frostbite if sprayed on skin after extended use.
- INHALATION:** Breathing small amounts of vapor during normal handling is not likely to cause harmful effects. Breathing large amounts may cause irritation to the nose and throat as well as headache, drowsiness or other nervous system effects.
- INGESTION:** Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Main hazard is aspiration of this material into the lungs during swallowing or vomiting. This can result in lung inflammation and other lung injury.
- CHRONIC EFFECTS:** Unknown
- TARGET ORGANS:** Inadequate data available for this material.

Medical Conditions Aggravated by Exposure: skin or respiratory conditions

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

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Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Aliphatic hydrocarbon	8052-41-3	10 - 15
Hydrotreated petroleum distillates	64742-47-8 / 64742-46-7	15 - 20
Turpentine oil	8006-64-2	3 - 6
COzol® 306	proprietary blend	3 - 6
2-Butoxyethanol	111-76-2	2 - 3
Diacetone alcohol	123-42-2	1 - 3
1,1-Difluoroethane (HFC-152a)	75-37-6	45 - 55

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 due to aspiration hazard. Seek medical attention.

Note to Physicians: This material is an aspiration hazard.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is extremely flammable in accordance with aerosol flammability definitions (16 CFR 1500.3(c)(6)).

Flash Point (liquid):	109 F (TCC)	Upper Explosive Limit:	ND
Flash Point (propellant):	- 58 F (Est.)	Lower Explosive Limit:	ND

Suitable Extinguishing Media: Use extinguishing media appropriate for a Class B fire.

Products of Combustion: Oxides of carbon

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.

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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: Do not use near flames, sparks or other sources of ignition. Do not heat product. Use with adequate ventilation in order to prevent vapor build-up and a flammable atmosphere. Avoid contact with skin and eyes.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing.

Aerosol Storage Level: III

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Aliphatic hydrocarbon	100 (v)	NE	100	NE	NE		ppm
Hydrotreated petroleum distillates	NE	NE	NE	NE	NE		
Turpentine oil	100	NE	20	NE	NE		ppm
COzol™ 306	NE	NE	NE	NE	NE		
2-Butoxyethanol	50 (s)	NE	20	NE	NE		ppm
Diacetone alcohol	50	NE	50	NE	NE		ppm
1,1-Difluoroethane	NE	NE	NE	NE	1000	AIHA	ppm
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.

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Skin Protection: Use protective gloves such as nitrile or other synthetic rubbers. 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: reddish

Odor: pine

Specific Gravity: 0.822

Initial Boiling Point: ND

Freezing Point: ND

Vapor Pressure: ND

Vapor Density: > 1 (air = 1)

Evaporation Rate: ND (ether = 1)

Solubility: negligible

pH: NA

Volatile Organic Compounds: wt %: 36.55 g/L: 300.4 lbs./gal: 2.5

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: heat, sources of ignition

Incompatible Materials: strong oxidizers

Hazardous Decomposition Products: oxides of carbon

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>
2-Butoxyethanol	LC50	450 ppm/4H	Inhalation	Rat
2-Butoxyethanol	LD50	470 mg/kg	Oral	Rat
2-Butoxyethanol	LD50	220 mg/kg	Dermal	Rabbit
Petroleum distillates	LD50	> 5 g/kg	Oral	Rat
Petroleum distillates	LD50	> 2 g/kg	Dermal	Rabbit
Petroleum distillates	LC50	> 5mg/L/4H	Inhalation	Rat

CHRONIC EFFECTS

Carcinogenicity:

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

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Mutagenicity: No data available.

Section 12: Ecological Information

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

Ecotoxicity: 2-Butoxyethanol 96 Hr LC50, Bluegill sunfish: 1490 mg/L
24 Hr LC50, daphnia: 1720 mg/L

Persistence / Degradability: No data available

Bioaccumulation / Accumulation: No data available

Mobility in Environment: No data available

Section 13: Disposal Considerations

Disposal: The dispensed liquid is a RCRA hazardous waste for the characteristic of ignitability with a waste code of D001. (See 40 CFR Part 261.20 – 261.33)
Aerosol containers should be emptied and depressurized before disposal. Empty containers may be recycled or discarded. Any liquids should be collected and properly disposed as hazardous waste.

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): Consumer Commodity, ORM-D

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: None

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	Yes
	Reactive Hazard	No
	Release of Pressure	Yes
	Acute Health Hazard	Yes
	Chronic Health Hazard	No

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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:
2-Butoxyethanol (Glycol ethers category) (2.5%)

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: cumene (< 0.03%)

State Right to Know:

New Jersey: 8052-41-3, 111-76-2, 8002-09-3, 8006-64-2, 123-42-2, 75-37-6

Pennsylvania: 8052-41-3, 123-42-2, 111-76-2

Massachusetts: 8052-41-3, 8006-64-2, 123-42-2, 111-76-2, 75-37-6

Rhode Island : 8052-41-3, 111-76-2, 8006-64-2, 123-42-2,

Additional Regulatory Information: In states with Consumer Products VOC regulations, this product is compliant as a Penetrant.

Section 16: Other Information

NFPA: Health: 1 Flammability: 4 Reactivity: 0
HMIS: Health: 1 Flammability: 4 Reactivity: 0 PPE: B

Prepared By: Michelle Rudnick
CRC #: 447B
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Changes since last revision: Section 15: Prop 65 chemical added

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		
ACGIH	American Conference of Governmental Industrial Hygienists		
NIOSH	National Institute of Occupational Safety & Health		
AIHA:	American Industrial Hygiene Association		