



# MATERIAL SAFETY DATA SHEET

## Section 1: Product & Company Identification

**Product Name:** Bio-Con™ Sludge Sediment Remover

**Product Number (s):** 05557, 75225

**Product Use:** diesel fuel system cleaner

### Manufacturer / Supplier Contact Information:

#### In United States:

CRC Industries, Inc.  
885 Louis Drive  
Warminster, PA 18974

[www.crcindustries.com](http://www.crcindustries.com)

1-215-674-4300(General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

#### In Canada:

CRC Canada Co.  
2-1246 Lorimar Drive  
Mississauga, Ontario L5S 1R2

[www.crc-canada.ca](http://www.crc-canada.ca)

1-905-670-2291

#### In Mexico:

CRC Industries Mexico  
Av. Benito Juárez 4055 G  
Colonia Orquídea  
San Luis Potosí, SLP CP 78394

[www.crc-mexico.com](http://www.crc-mexico.com)

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

## Section 2: Hazards Identification

### Emergency Overview

**DANGER:** Combustible. Harmful or Fatal if Swallowed.

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

Appearance & Odor: Amber liquid, petroleum odor

### Potential Health Effects:

#### ACUTE EFFECTS:

**EYE:** Contact with liquid or vapor may cause mild to moderate irritation.

**SKIN:** May cause skin irritation with prolonged or repeated contact. Practically non-toxic if absorbed following a single exposure.

**INHALATION:** Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure and death.

**INGESTION:** Ingestion may cause gastrointestinal disturbance, including irritation, nausea, vomiting and diarrhea. The major health threat of ingestion occurs from the danger of aspiration of liquid drop into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia, severe lung damage and even death.

**CHRONIC EFFECTS:** Liquid may be absorbed through the skin in toxic amounts if large areas of the skin are repeatedly exposed.

**TARGET ORGANS:** Central nervous system

**Medical Conditions Aggravated by Exposure:** Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis.

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

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### Section 3: Composition/Information on Ingredients

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COMPONENT	CAS NUMBER	% by Wt.
Petroleum Distillate	68476-34-6	80 - 90
2-Butoxy Ethanol	111-76-2	10 - 15
Diethylene glycol monomethyl ether	111-77-3	< 2

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### Section 4: First Aid Measures

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**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. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Mouth can be rinsed to dissipate the taste.

*Note to Physicians:* Treat symptomatically.

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### Section 5: Fire-Fighting Measures

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**Flammable Properties:** As defined by OSHA, this product is a Class II Combustible Liquid.  
Flash Point: 136°F / 58°C (TCC) Upper Explosive Limit: 7.5  
Autoignition Temperature: 494°F Lower Explosive Limit: 0.6

**Fire and Explosion Data:**

**Suitable Extinguishing Media:** Use extinguishers rated for Class B fires, such as dry chemical, Halon, fire fighting foam or CO<sub>2</sub>.

**Products of Combustion:** Oxides of carbon

**Explosion Hazards:** Containers, when exposed to heat from fire, may build pressure and rupture.

**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

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**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:** Remove all sources of ignition. 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

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material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

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## Section 7: Handling and Storage

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**Handling Procedures:** Keep away from heat, sparks and open flame. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion. Provide adequate ventilation during use. Do not breathe vapors. Wash hands after use. For product use instructions, please see the product label.

**Storage Procedures:** Store in a cool dry area out of direct sunlight. Containers should be tightly closed while in storage. Store in a well ventilated area. Keep out of reach of children.

**Aerosol Storage Level:** NA

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## Section 8: Exposure Controls/Personal Protection

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### Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Petroleum Distillate	5	NE	100 (s)	NE	NE		mg/m <sup>3</sup>
2-Butoxy Ethanol	50	NE	20	NE	NE		ppm
Diethylene glycol monomethyl ether	NE	NE	NE	NE	NE		

N.E. – Not Established      (c) – ceiling      (s) – skin      (v) – vacated

### Controls and Protection:

**Engineering Controls:** Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. 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. Air monitoring is needed to determine actual employee exposure levels. 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 nitrile, neoprene or PVC. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

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## Section 9: Physical and Chemical Properties

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**Physical State:** liquid

**Color:** amber

**Odor:** petroleum

**Odor Threshold:** ND

**Specific Gravity:** 0.861

**Initial Boiling Point:** 320°F / 160°C

**Freezing Point:** ND

**Vapor Pressure:** ND

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Vapor Density: > 1 (air = 1)  
Evaporation Rate: slow  
Solubility: negligible in water  
Coefficient of water/oil distribution: ND  
pH: NA  
Volatile Organic Compounds: wt %: 46.6 g/L: 401.2 lbs./gal: 3.34

**Section 10: Stability and Reactivity**

Stability: Stable

Conditions to Avoid: Temperature extremes, sources of ignition

Incompatible Materials: Strong oxidizers, Viton®, Fluorel®

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, non-combusted hydrocarbons (smoke)

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 Toxicity:**

Component	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Petroleum Distillate	9 mL/kg	> 5 mL/kg	No data
2-Butoxy Ethanol	470 mg/kg	220 mg/kg	450 ppm/4H
Diethylene glycol monomethyl ether	4 mL/kg	2500 µL/kg	No data

**Chronic Toxicity:**

Component	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen	Irritant	Sensitizer
Petroleum Distillate	No	No	No	E (mild) / S (mild) / R (moderate)	No
2-Butoxy Ethanol	No	No	No	E (severe) / S (mild) / R (mild)	No
Diethylene glycol monomethyl ether	No	No	No	E (severe) / S (severe)	Yes

E – Eye      S – Skin      R - Respiratory

Reproductive Toxicity: No information available

Teratogenicity: No information available

Mutagenicity: Petroleum Distillate: This material has been positive in a mutagenicity study.

Synergistic Effects: No information available

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## Section 12: Ecological Information

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

Ecotoxicity: 2-Butoxy Ethanol - 24 Hr LC50 water flea: 1720 mg/L  
Persistence / Degradability: No information available  
Bioaccumulation / Accumulation: No information available  
Mobility in Environment: Spills may penetrate the soil causing groundwater contamination. This material may accumulate in sediments.

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## Section 13: Disposal Considerations

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**Waste Classification:** This product is a RCRA hazardous waste for the characteristic of ignitability with a waste code of D001. (See 40 CFR Part 261.20 – 261.33)  
Empty containers may be recycled.

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

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## Section 14: Transport Information

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US DOT (ground): Consumer Commodity, ORM-D  
ICAO/IATA (air): Flammable liquids, N.O.S. (Petroleum distillates & 2-butoxyethanol), UN1993, 3, PGIII, Limited Quantity  
IMO/IMDG (water): Flammable liquids, N.O.S. (Petroleum distillates & 2- butoxyethanol), UN1993, 3, PGIII, Limited Quantity  
Special Provisions: None

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## Section 15: Regulatory Information

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### U.S. Federal Regulations:

#### 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	No
	Acute Health Hazard	Yes
	Chronic Health Hazard	Yes

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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:  
Glycol ethers (12.6%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

**U.S. 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:  
Naphthalene (< 0.01%),  
Benzene (trace)

Consumer Products VOC Regulations: This product is not regulated.

State Right to Know:

New Jersey: 111-76-2, 21564-17-0  
Pennsylvania: 111-76-2, 111-77-3  
Massachusetts: 111-76-2, 21564-17-0, 111-77-3  
Rhode Island : 111-76-2

**Canadian Regulations:**

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: B3, D1A, D1B, D2B

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

**European Union Regulations:**

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

**Additional Regulatory Information:** This diesel fuel additive does not comply with federal ultra-low sulfur content requirements for the use in model year 2007 and newer diesel motor vehicles or model year 2011 and newer diesel non-road equipment engines.

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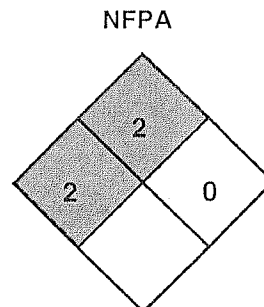
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**Section 16: Other Information**

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HMIS® (II)	
Health:	2
Flammability:	2
Reactivity:	0
PPE:	B



Ratings range from 0 (no hazard) to 4 (severe hazard)

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CRC #: 619E  
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Changes since last revision: Section 14: IATA and IMDG Shipping Information revised

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. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists	NA: Not Applicable
CAS: Chemical Abstract Service	ND: Not Determined
CFR: Code of Federal Regulations	NIOSH: National Institute of Occupational Safety & Health
DOT: Department of Transportation	NFPA: National Fire Protection Association
DSL: Domestic Substance List	NTP: National Toxicology Program
g/L: grams per Liter	OSHA: Occupational Safety and Health Administration
HMIS: Hazardous Materials Identification System	PMCC: Pensky-Martens Closed Cup
IARC: International Agency for Research on Cancer	PPE: Personal Protection Equipment
IATA: International Air Transport Association	ppm: Parts per Million
ICAO: International Civil Aviation Organization	RoHS: Restriction of Hazardous Substances
IMDG: International Maritime Dangerous Goods	STEL: Short Term Exposure Limit
IMO: International Maritime Organization	TCC: Tag Closed Cup
lbs./gal: pounds per gallon	TWA: Time Weighted Average
LC: Lethal Concentration	WHMIS: Workplace Hazardous Materials Information System
LD: Lethal Dose	