

Section 1: Product & Company Identification

Product Name: Dry Graphite Lube (aerosol)

Product Number (s): 75101

Product Use: Dry film lubricant

Manufacturer / Supplier Contact Information:

In United States: CRC Industries, Inc. 885 Louis Drive Warminster, PA 18974 <u>www.crcindustries.com</u> 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 <u>www.crc-canada.ca</u> 1-905-670-2291

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

Section 2: Hazards Identification

Emergency Overview

DANGER: Extremely Flammable. Vapors May Cause Flash Fires. May Cause Eye and Skin Irritation. Contents Under Pressure. Appearance & Odor: Black liquid, ketone odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: May cause irritation.

- SKIN: May cause irritation.
- INHALATION: Inhalation of solvents may cause irritation. Propellant is a simple asphyxiant.

INGESTION: May cause headache, nausea, vomiting and weakness.

CHRONIC EFFECTS: Solvents may cause defatting dermatitis.

TARGET ORGANS: None known

Medical Conditions Aggravated by Exposure: pre-existing skin conditions

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

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Acetone	67-64-1	60 - 100
Isopropanol	67-63-0	1 - 5
Propane	74-98-6	10 - 30

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. Get medical attention.

Note to Physicians: Treat symptomatically.

Section 5: Fire-Fighting Measures

This product is extremely flammable in accordance with aerosol flammability definitions. Flammable Properties: (See 16 CFR 1500.3(c)(6)). The flame extension is greater than 15 cm and less than 100 cm. -4°F / -20°C (TCC) Upper Explosive Limit: Flash Point: 12.8 Autoignition Temperature: 750 - 869°F / 399 - 465°C Lower Explosive Limit: 1.9 Fire and Explosion Data: Water, carbon dioxide, dry chemical, foam Suitable Extinguishing Media: Products of Combustion: Hydrocarbon fumes and smoke; carbon monoxide where combustion is incomplete Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapors **Explosion Hazards:** may accumulate in a confined space and create a flammable atmosphere. Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eve 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: Eliminate 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 material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures:	Keep away from heat, sparks and open flames. Use in a well ventilated area (mechanical ventilation needed if used indoors on a continuous basis). Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.
Storage Procedures:	Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120°F / 49°C to prevent cans from rupturing. Store away from heat, sparks and open flames.
Aerosol Storage Level:	Ш

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

	05	SHA	AC	GIH	0	THER	
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
Acetone	750 (v)	1000 (v)	500	750	NE		ppm
Isopropanol	400	500 (v)	200	400	NE		ppm
Propane	1000	NE	1000	NE	NE		ppm
N.E. – Not Established		(c) – ceilin	g (s) -	- skin	(v) – vaca	ited	

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. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. 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.
Chin Drotostion	Lies protective slaves such as situits DVA as Viter & Ales use full protective slatting if there is

Skin Protection:Use protective gloves such as nitrile, PVA or Viton®. Also, use full protective clothing if there is
prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State:liquidColor:blackOdor:ketoneOdor Threshold:NDSpecific Gravity:0.66 – 0.70Initial Boiling Point:134.6°F / 57°CFreezing Point:NDVapor Pressure:60 – 70 psig @ 68°F / 20°C

Product Name: Dry Graphite Lube (aerosol)		Product Number (s): 7510	
Vapor Density: > 1 (air = 1) Evaporation Rate: fast Solubility: ND Coefficient of water/oil distribution: ND pH: NA			
Volatile Organic Compounds: <u>wt %</u> : 27	<u>g/L</u> : 189	<u>lbs./gal</u> : 1.57	
Section 10: Stability and Read	ctivity		

Stability: Stable Conditions to Avoid: Do not use near heat, sparks, or flames. Incompatible Materials: Strong oxidizing agents Hazardous Decomposition Products: Hydrogen fumes and smoke; carbon monoxide where combustion is incomplete 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:

<u>Component</u>	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Acetone	5800 mg/kg	No data	50,100 mg/m ³ /8H
Isopropanol	5000 mg/kg	12,800 mg/kg	16,000 ppm/8H
Propane	No data	No data	No data

Chronic Toxicity:

<u> </u>				
<u>Carcinogen</u>	<u>Carcinogen</u>	<u>Carcinogen</u>	<u>Irritant</u>	<u>Sensitizer</u>
No	No	No	E & S (moderate) / R (mild)	Yes
No	No	No	E (moderate) / S (mild)	No
No	No	No	No	No
-	No	No No No	No No No No No No	No No No E & S (moderate) / R (mild) No No No E (moderate) / R (mild)

E – Eye S – Skin R - Respiratory

Reproductive Toxicity:	No information available
Teratogenicity:	No information available
Mutagenicity:	No information available
Synergistic Effects:	No information 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:	No information	available
Persistence / Degr	adability:	No information available
Bioaccumulation /	Accumulation:	No information available
Mobility in Environ	ment:	No information available

Section 13: Disposal Considerations

<u>Waste Classification</u>: The dispensed liquid product is RCRA hazardous waste for the characteristic of ignitability with a waste code of D001. (See 40 CFR Part 261.20 – 261.33) Empty aerosol 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.

Section 14: Transport Information

US DOT (ground): UN1950, Aerosols, flammable, 2.1, Limited Quantity

ICAO/IATA (air): UN1950, Aerosols, flammable, 2.1, Limited Quantity

IMO/IMDG (water): UN1950, Aerosols, 2.1, Limited Quantity

Special Provisions: None

Section 15: Regulatory Information

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: Acetone (5000 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 Catego	ies: Fire Hazard Reactive Hazard Release of Pressure Acute Health Hazard Chronic Health Hazard	Yes No Yes Yes No
Section 313 Toxic Chemicals:	This product contains the following	•

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: None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

Occupational Safety and Health Administration (OSHA):

This product is regulated under the Hazard Communication Standard.

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: None

<u>Consumer Products VOC Regulations</u>: This product is not regulated.

State Right to Know:

New Jersey:	67-64-1, 67-63-0, 74-98-6
Pennsylvania:	67-64-1, 67-63-0, 74-98-6
Massachusetts:	67-64-1, 67-63-0, 74-98-6
Rhode Island :	67-64-1, 67-63-0, 74-98-6

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: A, B5, D2B

<u>Canadian DSL Inventory</u>: All ingredients are either listed on the DSL Inventory or are exempt.

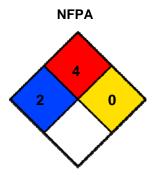
European Union Regulations:

<u>RoHS Compliance</u>: 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: None

Section 16: Other Information

HMIS® (II)	
Health:	2
Flammability:	4
Reactivity:	0
PPE:	В



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

Prepared By:	Michelle Rudnick
CRC #:	75101
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Changes since last revision: Section 13: Disposal Considerations Section 14: Transport Information

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
- CAS: Chemical Abstract Service
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- DSL: Domestic Substance List
- g/L: grams per Liter
- HMIS: Hazardous Materials Identification System
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Dangerous Goods
- IMO: International Maritime Organization
- lbs./gal: pounds per gallon
- LC: Lethal Concentration
- LD: Lethal Dose

- NA: Not Applicable
- ND: Not Determined
- NIOSH: National Institute of Occupational Safety & Health
- NFPA: National Fire Protection Association
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PMCC: Pensky-Martens Closed Cup
- PPE: Personal Protection Equipment
- ppm: Parts per Million
- RoHS: Restriction of Hazardous Substances
- STEL: Short Term Exposure Limit
- TCC: Tag Closed Cup
- TWA: Time Weighted Average
- WHMIS: Workplace Hazardous Materials Information System