



# Material Safety Data Sheet

## Section 1: Product & Company Identification

**Product Name:** Automotive Dry Lube (Aerosol)

**Product Number (s):** 05114

**Manufactured By:**

CRC Industries, Inc.  
885 Louis Drive  
Warminster, PA 18974  
[www.crcindustries.com](http://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: Hazy, white suspension in liquid with alcohol odor

### DANGER

Flammable. Harmful or fatal if swallowed. Contents under pressure.

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

### Potential Health Effects:

**EYE:** May cause mild irritation including stinging and redness, but does not injure eye.

**SKIN:** Single, brief exposures may cause mild irritation. Frequent or prolonged contact may cause more severe irritation, defatting of the skin, and dermatitis.

**INHALATION:** High vapor concentrations are irritating to the respiratory tract and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death. May cause peripheral nervous system disorder and/or damage. Heating the dry film (> 500 F) can generate fluorine compound vapors which may lead to polymer fume fever if inhaled.

**INGESTION:** Low order of toxicity by ingestion. Main hazard is aspiration into the lungs during swallowing or vomiting. Small amounts aspirated into the respiratory system may cause bronchopneumonia or pulmonary adema, possible progressing to death.

**CHRONIC EFFECTS:** Overexposure to n-hexane may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs. Prolonged or repeated exposure to isopropyl alcohol may cause dry skin, low blood pressure, temporary changes in the liver, respiratory depression and effects on heart rate.

**TARGET ORGANS:** central nervous system, peripheral nervous system, respiratory system

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

**Section 3: Composition/Information on Ingredients**

COMPONENT	CAS NUMBER	% by Wt.
Hexane isomers	various	20 - 30
Isopropyl alcohol	67-63-0	25 - 35
n-Hexane	110-54-3	1.8
Polytetrafluoroethylene	9002-84-0	< 2
Liquefied petroleum gas	68476-86-8	40 - 50

**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. Contact a physician immediately.
<i>Note to Physicians:</i>	Treat symptomatically. Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

**Section 5: Fire-Fighting Measures**

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

Flash Point (liquid):	< 20 F (TCC)	Upper Explosive Limit:	9.5
Flash Point (propellant):	- 156 F (est.)	Lower Explosive Limit:	1.9

Suitable Extinguishing Media: Class B fire extinguishers, dry chemical, foam or CO2

Products of Combustion: fumes, smoke and carbon monoxide; fluorine compounds

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 fog or spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition. Do not spray water directly on fire; product will float and could be reignited on surface of water.

**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. Remove all sources of ignition. 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 product near any potential source of ignition. Do not touch container to electrical sources as container will conduct electricity. Avoid contact with eyes and skin. Avoid breathing vapors.

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	
Hexane isomers	500(v)	1000(v)	500	1000	NE		ppm
Isopropyl alcohol	400	500 (v)	200	400	NE		ppm
n-Hexane	500	NE	50(s)	NE	NE		ppm
Polytetrafluoroethylene	NE	NE	NE	NE	10	mfg*	mg/m <sup>3</sup>
Carbon dioxide	5000	30,000v	5000	30,000	NE		ppm
N.E. – Not Established      (c) – ceiling      (s) – skin      (v) – vacated							

\* manufacturer's suggested exposure limit for dust particles

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 an 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 nitrile, PVC 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: liquid (dispensed product is dry film)

Color: hazy white suspension

Odor: alcohol

Specific Gravity: 0.73  
 Initial Boiling Point: 140 F  
 Freezing Point: ND  
 Vapor Pressure: ND  
 Vapor Density: > 1 (air = 1)  
 Evaporation Rate: > 1 (Butyl acetate = 1)  
 Solubility: negligible in water  
 pH: NA  
 Volatile Organic Compounds: wt %: 98 g/L: 715.4 lbs./gal: 5.96

**Section 10: Stability and Reactivity**

Stability: Stable

Conditions to Avoid: sources of ignition, temperature extremes

Incompatible Materials: Acids, aldehydes, alkalis, amines, chlorinated hydrocarbons, ethylene oxide, halogens, isocyanates, strong acids and strong oxidizing agents

Hazardous Decomposition Products: oxides of carbon, fluorine compounds (if heated)

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>
Isopropyl alcohol	LD50	4396 mg/kg	Oral	Rat
n-hexane	LD50	28710 mg/kg	Oral	Rat
n-hexane	LD50	3000 mg/kg	Dermal	Rabbit
Isopropyl alcohol	LC50	72.6 mg/L/4H	Inhalation	Rat
n-hexane	LC50	48000 ppm/4H	Inhalation	Rat

**CHRONIC EFFECTS****Carcinogenicity:**

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

Mutagenicity: 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: n-hexane - 48 Hr EC50 water flea: 3.87 mg/L

96 Hr LC50 Lepomis macrochirus: 4.12 mg/L

Persistence / Degradability: No information available  
Bioaccumulation / Accumulation: No information available  
Mobility in Environment: No information available

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**Section 13: Disposal Considerations**

Disposal: The liquid 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).  
Aerosol containers should be emptied and depressurized before disposal. Empty containers may be recycled. Any liquid product should be managed as a hazardous waste.

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

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**Section 14: Transport Information**

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

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**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: n-hexane (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 Categories: Fire Hazard Yes  
Reactive Hazard No  
Release of Pressure Yes  
Acute Health Hazard Yes  
Chronic Health Hazard Yes

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:  
n-hexane (1.8%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): n-hexane

Consumer Product Safety Act General Conformity Certification: This product was evaluated by CRC Industries, Inc., and is certified to be in compliance with the provisions of the Consumer Product Safety Act, the Federal Hazardous Substances Act and the Poison Prevention Packaging Act, as applicable. This product was manufactured at the location listed in Section 1 of this MSDS. The date of manufacture is stamped on the product container. No testing is required to certify compliance with the above

**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: 75-83-2, 110-54-3, 79-29-8  
Pennsylvania: 107-83-5, 75-83-2, 110-54-3, 79-29-8, 9002-84-0  
Massachusetts: 107-83-5, 75-83-2, 110-54-3, 79-29-8  
Rhode Island : 110-54-3

**Additional Regulatory Information:** None

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**Section 16: Other Information**

NFPA: Health: 2 Flammability: 4 Reactivity: 0  
HMIS: Health: 2 Flammability: 4 Reactivity: 0 PPE: B

Prepared By: Michelle Rudnick  
CRC #: 670/670A  
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Changes since last revision: Section 15: CPSA Certification 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