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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME:	**Power Lube® w/PTFE (Aerosol)**
PRODUCT NAME:	**Power Lube w/PTFE (Aerosol)**
Customer Service:	**(800) 272-4620**
CHEMTREC:	**(800) 424-9300**
EMAIL:	**www.crcindustries.com**
BUSINESS PHONE:	**(215) 674-4300**
Technical Assistance:	**(800) 521-3168**
PRODUCT NUMBER:	**03045, 83045**
MANUFACTURER NAME:	**CRC Industries, Inc. 885 Louis Drive Warminster, PA 18974**

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS#	Ingredient Percent
Hexane isomers	various	20 - 30 by Weight
Mineral oil, solvent refined	64741-88-4	10 - 20 by Weight
Hydrotreated light distillates	64742-47-8	15 - 25 by Weight
Dipropylene glycol monomethyl ether	34590-94-8	2-5 by Weight
n-Hexane	110-54-3	1.5 by Weight
Zinc alkyldithiophosphate	proprietary	1.0 by Weight
Liquefied petroleum gas	68476-86-8	15 - 25 by Weight

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:	**DANGER Extremely flammable. Harmful or fatal if swallowed. Contents under pressure. As defined by OSHA's Hazard Communication Standard, this product is hazardous.**
Appearance & Odor:	**Light amber liquid, oil of wintergreen odor.**
EYE CONTACT:	**May cause mild irritation including stinging and redness, but does not injure eye.**
SKIN CONTACT:	**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 dispensed grease may generate irritating vapors.**
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.**
Target Organ Effects:	**central nervous system, peripheral nervous system, respiratory system**
AGGRAVATION OF CONDITIONS:	**skin and respiratory conditions**
Hazards Comments:	**See Section 11 for toxicology and carcinogenicity information on product ingredients.**

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.**
NOTE TO PHYSICIANS:	**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 extremely flammable in accordance with aerosol flammability definitions (16 CFR 1500.3(c)(6)).**
FLASH POINT:	**< 20 F (TCC)**
FLAMMABLE LIMITS - UEL:	**9.0**
AUTOIGNITION TEMPERATURE:	**ND**
FLAMMABLE LIMITS - LEL:	**1.7**
EXTINGUISHING MEDIA:	**Class B fire extinguishers, dry chemical, foam or CO2**
HAZARDOUS COMBUSTION PRODUCTS:	**fumes, smoke and carbon monoxide**
PROTECTIVE EQUIPMENT:	**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

PERSONNEL PRECAUTIONS:	Use personal protection recommended in Section 8.
ENVIRONMENTAL DATA:	Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.
SPILL CLEAN UP MEASURES:	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:	Use proper grounding and bonding procedures for transferring materials. Do not use product near any 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:	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

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 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.
Ingredient Guideline Notes:	N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated * – oil mist
Ingredient:	Hexane isomers
Guideline Info:	OSHA TWA: 500(v); OSHA STEL: 1000(v); ACGIH TWA: 500; ACGIH STEL: 1000; OTHER TWA: NE; UNIT: ppm
Ingredient:	Mineral oil, solvent refined
Guideline Info:	OSHA TWA: 5*; OSHA STEL: NE; ACGIH TWA: 5*; ACGIH STEL: 10*; OTHER TWA: NE; UNIT: mg/m3
Ingredient:	Hydrotreated light distillates
Guideline Info:	OSHA TWA: NE; OSHA STEL: NE; ACGIH TWA: NE; ACGIH STEL: NE; OTHER TWA: NE
Ingredient:	Dipropylene glycol monomethyl ether
Guideline Info:	OSHA TWA: 100 (v); OSHA STEL: 150 (v); ACGIH TWA: 100; ACGIH STEL: 150; OTHER TWA: NE; UNIT: ppm
Ingredient:	n-Hexane
Guideline Info:	OSHA TWA: 500; OSHA STEL: NE; ACGIH TWA: 50(s); ACGIH STEL: NE; OTHER TWA: NE; UNIT: ppm
Ingredient:	Zinc alkyldithiophosphate
Guideline Info:	OSHA TWA: NE; OSHA STEL: NE; ACGIH TWA: NE; ACGIH STEL: NE; OTHER TWA: NE
Ingredient:	Liquefied petroleum gas
Guideline Info:	OSHA TWA: 1000; OSHA STEL: NE; ACGIH TWA: 1000; ACGIH STEL: NE; OTHER TWA: NE; UNIT: ppm

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

VOLATILE ORGANIC COMPOUNDS:	wt % : 44.8 g/L : 363 lbs./gal: 3.0
EVAPORATION RATE:	> 1 (Butyl acetate = 1)
SOLUBILITY:	not soluble in water
pH:	NA
INITIAL BOILING POINT:	140 F
FREEZING POINT:	< -50 F
VAPOR PRESSURE:	ND
VAPOR DENSITY:	> 1 (air = 1)
ODOR:	oil of wintergreen
SPECIFIC GRAVITY:	0.8103
PHYSICAL STATE:	liquid
COLOR:	light amber

SECTION 10 - STABILITY and REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	sources of ignition, temperature extremes
INCOMPATIBLE MATERIALS:	strong oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS:	oxides of carbon, sulfur, phosphorus and zinc, salicylic acid, hydrocarbons
DANGEROUS REACTIONS:	No

SECTION 11 - TOXICOLOGICAL INFORMATION

OSHA:	None listed
IARC:	None listed
NTP:	None listed
MUTAGENICITY:	No information available
Additional toxicological information:	IARC has determined in reviewing cancer prevalence of exposed workers that the carcinogenic activity of refined oils is related to the severity of processing of the base oil. The mineral oils in this product

	contain < 3% DMSO Extractable total polycyclic aromatic compound (PAC) per IP 346.
Toxicological Comments:	Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.
Chemical Name:	n-hexane
ACUTE TOXICITY (Ingredient):	Test: LD50; Result: 28710 mg/kg; Route: Oral; Species: Rat
Chemical Name:	n-hexane
ACUTE TOXICITY (Ingredient):	Test: LD50; Result: 3000 mg/kg; Route: Dermal; Species: Rabbit
Chemical Name:	n-hexane
ACUTE TOXICITY (Ingredient):	Test: LC50; Result: 48000 ppm/4H; Route: Inhalation; Species: Rat
Chemical Name:	mineral oil, solvent refined
ACUTE TOXICITY (Ingredient):	Test: LC50; Result: 2.18 mg/L/4H; Route: Inhalation; Species: Rat

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:	n-hexane - 48 Hr EC50 water flea: 3.87 mg/L 96 Hr LC50 Lepomis macrochirus: 4.12 mg/L mineral oil, solvent refined - 48 Hr EC50 Daphnia magna: >1000 mg/L
Persistence / Degradability:	No information available
BIOACCUMULATION:	No information available
MOBILITY:	No information available
Ecological Comments:	Ecological studies have not been conducted for this product. The following information is available for components of this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:	The dispensed 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.

SECTION 14 - TRANSPORT INFORMATION

DOT:	Consumer Commodity, ORM-D
Special Provisions:	None

SECTION 15 - REGULATORY INFORMATION

ADDITIONAL INFORMATION:	In states with Consumer Products VOC regulations, this product is compliant as a Multi-Purpose Lubricant.
STATE RIGHT TO KNOW:	New Jersey: 75-83-2, 110-54-3, 79-29-8, 68476-86-8, 34590-94-8 Pennsylvania: 107-83-5, 75-83-2, 110-54-3, 79-29-8, 68476-86-8, 34590-94-8, 119-36-8, 9002-84-0 Massachusetts: 107-83-5, 75-83-2, 110-54-3, 79-29-8, 68476-86-8, 34590-94-8 Rhode Island : 110-54-3, 68476-86-8, 34590-94-8, 119-36-8, 9002-84-0
California Proposition 65:	This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: NONE
SECTION 112 HAPS:	n-hexane
311/312 Hazard Categories:	Fire Hazard Yes Reactive Hazard No Release of Pressure Yes Acute Health Hazard Yes Chronic Health Hazard Yes
SECTION 313:	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 (1.5%), zinc compounds (1%)
SECTION 302 EHS:	None
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.
TSCA INVENTORY STATUS:	All ingredients are either listed on the TSCA inventory or are exempt.

SECTION 16 - ADDITIONAL INFORMATION

NFPA - REACTIVITY:	0
NFPA - FIRE:	3
NFPA - HEALTH:	2
ABBREVIATIONS:	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
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Revision Changes:	Section 15: Additional Regulatory Information revised
MSDS REVISION DATE:	07/29/2008
CRC #:	494I
MSDS AUTHOR:	Michelle Rudnick
HMIS - HEALTH:	2
HMIS - FLAMMABILITY:	3
HMIS - REACTIVITY:	0
HMIS - PERSONAL PROTECTION:	B