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MSDS

Common Name: DRY GRAPHITE LUBRICANT 03094**Manufacturer:** CRC**MSDS Revision Date:** 12/10/2007**Grainger Item Number(s):** 4JB39**Manufacturer Model Number(s):**

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CRC (R*)

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT & COMPANY IDENTIFICATION



PRODUCT NAME: DRY GRAPHITE LUBRICANT

PRODUCT NUMBER (S): 03094

MANUFACTURED BY:
CRC INDUSTRIES, INC.
885 LOUIS DRIVE
WARMINSTER, PA 18974

WWW.CRCINDUSTRIES.COM

GENERAL INFORMATION: (215) 674-4300

TECHNICAL ASSISTANCE: (800) 521-3168

24-HR EMERGENCY (CHEMTREC): (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

APPEARANCE & ODOR: BLACK VISCOUS LIQUID, SOLVENT ODOR.

DANGER:

EXTREMELY FLAMMABLE. HARMFUL OR FATAL IF SWALLOWED. VAPOR HARMFUL. EYE AND SKIN IRRITANT. CONTENTS UNDER PRESSURE.

AS DEFINED BY OSHA'S HAZARD COMMUNICATION STANDARD, THIS PRODUCT IS HAZARDOUS.

POTENTIAL HEALTH EFFECTS:

EYE:

MAY CAUSE IRRITATION, INCLUDING REDNESS, ITCHING OR A BURNING SENSATION.

SKIN:

PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION. SYMPTOMS MAY INCLUDE REDNESS, ITCHING OR A BURNING SENSATION OF THE SKIN.

INHALATION:

MAY CAUSE IRRITATION OF THE UPPER RESPIRATORY SYSTEM, NERVOUS SYSTEM DEPRESSION (HEADACHE, DIZZINESS, NAUSEA, AND LOSS OF COORDINATION). EXTREME OVEREXPOSURE MAY RESULT IN UNCONSCIOUSNESS AND POSSIBLY DEATH.

INGESTION: INGESTION OF AEROSOL PRODUCT IS NOT EXPECTED DURING NORMAL USE.

CHRONIC EFFECTS:

PROLONGED OVEREXPOSURE MAY CAUSE ADVERSE EFFECTS TO THE LIVER AND URINARY SYSTEMS.

TARGET ORGANS: LIVER AND URINARY SYSTEMS

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: UNKNOWN

SEE SECTION 11 FOR TOXICOLOGY AND CARCINOGENICITY INFORMATION ON PRODUCT INGREDIENTS.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



COMPONENT	CAS NUMBER	% BY WT.
PROPANE	74-98-6	10 - 20
BUTANE	106-97-8	10 - 20
HEPTANE	142-82-5	40 - 50
TOLUENE	108-88-3	<2
2-PROPANOL	67-63-0	20 - 30
GRAPHITE	7782-42-5	<2

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 IMMEDIATELY.

NOTE TO PHYSICIANS: TREAT SYMPTOMATICALLY.

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: <0 F

AUTOIGNITION TEMPERATURE: ND

UPPER EXPLOSIVE LIMIT: ND

LOWER EXPLOSIVE LIMIT: ND

SUITABLE EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM

PRODUCTS OF COMBUSTION: CARBON DIOXIDE AND CARBON MONOXIDE

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.

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:

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 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 FLAME. VAPORS WILL ACCUMULATE READILY AND MAY IGNITE EXPLOSIVELY. DURING USE AND UNTIL ALL VAPORS ARE GONE: KEEP AREA VENTILATED. DO NOT SMOKE. EXTINGUISH ALL FLAMES, PILOT LIGHTS, AND HEATERS. TURN OFF STOVES, ELECTRIC TOOLS AND OTHER APPLIANCES, AND ANY OTHER SOURCE OF IGNITION.

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. STORE OUT OF REACH OF CHILDREN.

AEROSOL STORAGE LEVEL: III

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



EXPOSURE GUIDELINES:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
PROPANE	1000	NE	1000	NE	NE		PPM
BUTANE	800	NE	1000	NE	NE		PPM
HEPTANE	500	NE	400	500	NE		PPM
TOLUENE	100	150	20	NE	NE		PPM
2-PROPANOL	400	NE	200	400	NE		PPM
GRAPHITE	2.5	NE	2	NE	NE		MG/M3

N.E. - NOT ESTABLISHED

(C) - CEILING

(S) - SKIN

(V) - VACATED

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. 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 NEOPRENE OR NITRILE. 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: BLACK

ODOR: SOLVENT

SPECIFIC GRAVITY: 0.66

INITIAL BOILING POINT: ND

FREEZING POINT: ND

VAPOR PRESSURE: ND

VAPOR DENSITY: >1 (AIR = 1)

EVAPORATION RATE: >1 (ETHER = 1)

SOLUBILITY: ND

pH: NA

VOLATILE ORGANIC COMPOUNDS:

WT %: 98.8

G/L: 652.1

LBS./GAL: 5.43

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: SOURCES OF IGNITION; TEMPERATURE EXTREMES

INCOMPATIBLE MATERIALS: NONE KNOWN

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE AND CARBON MONOXIDE

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:

COMPONENT	TEST	RESULT	ROUTE	SPECIES
2-PROPANOL	LD50	12,800 MG/KG	DERMAL	RABBIT
2-PROPANOL	LC50	16,000 PPM/8H	INHALATION	RAT
TOLUENE	LD50	5000 MG/KG	ORAL	RAT

CHRONIC EFFECTS:

CARCINOGENICITY:

	COMPONENT	RESULT
OSHA	NONE LISTED	
IARC	NONE LISTED	
NTP	NONE LISTED	
MUTAGENICITY	UNKNOWN	
OTHER	NONE	

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 / DEGRADABILITY: NO INFORMATION AVAILABLE.

BIOACCUMULATION / ACCUMULATION: NO INFORMATION AVAILABLE.

MOBILITY IN ENVIRONMENT: NO INFORMATION AVAILABLE.

SECTION 13: DISPOSAL CONSIDERATIONS



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 FULLY EMPTIED AND DEPRESSURIZED BEFORE DISPOSAL. EMPTY CONTAINERS MAY BE RECYCLED.

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:

TOLUENE (1,000 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: TOLUENE (1%)

CLEAN AIR ACT:

SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS): TOLUENE

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:
TOLUENE

STATE RIGHT TO KNOW:

NEW JERSEY: 74-98-6, 106-97-8, 142-82-5, 108-88-3, 67-63-0

PENNSYLVANIA: 74-98-6, 106-97-8, 142-82-5, 108-88-3, 67-63-0, 7782-42-5

MASSACHUSETTS: 74-98-6, 106-97-8, 142-82-5, 108-88-3, 67-63-0

RHODE ISLAND: 74-98-6, 106-97-8, 142-82-5, 108-88-3, 67-63-0, 7782-42-5

ADDITIONAL REGULATORY INFORMATION: NONE

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 #: 03094

REVISION DATE: 12/10/2007

CHANGES SINCE LAST REVISION:
MSDS REFORMATTED IN ACCORDANCE WITH ANSI Z400.1-2004

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CAS: CHEMICAL ABSTRACT SERVICE
PPM: PARTS PER MILLION
TCC: TAG CLOSED CUP
PMCC: PENSKY-MARTENS CLOSED CUP
PPE: PERSONAL PROTECTION EQUIPMENT
TWA: TIME WEIGHTED AVERAGE
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
NIOSH: NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY & HEALTH
NA: NOT APPLICABLE
ND: NOT DETERMINED
NE: NOT ESTABLISHED
G/L: GRAMS PER LITER
LBS./GAL: POUNDS PER GALLON
STEL: SHORT TERM EXPOSURE LIMIT