

MATERIAL SAFETY DATA SHEET

MSDS DATE: October 9, 2009

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: VTG414 Multi-Purpose Lubricant and Corrosion Inhibitor (aerosol)

SYNONYMS:

PRODUCT CODES: 03004, 03005, 03093

MANUFACTURER: CRC Industries, Inc.
ADDRESS: 885 Louis Drive
Warminster, Pa. 18974
www.crcindustries.com

GENERAL INFORMATION: (800) 421-0914
CHEMTREC PHONE: (800) 424-9300
CUSTOMER SERVICE: (800) 272-4620

CHEMICAL NAME: 3-39® Multi-Purpose Lubricant and Corrosion Inhibitor (aerosol)
CHEMICAL FAMILY:
CHEMICAL FORMULA:

PRODUCT USE:
PREPARED BY: Safety Department

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

<u>Material or Component</u>	<u>CAS NO.</u>	<u>% WT</u>
Hydrotreated light distillates	64742-47-8	65 – 75
Solvent-refined heavy paraffinic distillates	64741-88-4	15 – 25
Inhibitor blend	proprietary	5 – 15
Carbon dioxide	124-38-9	1 - 5

SECTION 2 NOTES: As defined by OSHA's Hazard Communication Standard, this product is hazardous.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Appearance & Odor: Clear blue-green liquid, pleasant odor.

DANGER: Flammable. Harmful or Fatal if Swallowed. Contents Under Pressure.

ROUTES OF ENTRY:

POTENTIAL HEALTH EFFECTS

EYES:	Contact may cause mild irritation including stinging, watering and redness.
SKIN:	Contact may cause redness, itching, burning and skin damage. Prolonged or repeated contact can worsen irritation and lead to dermatitis. No harmful effects from skin absorption is expected.
INGESTION:	Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.
INHALATION:	Expected to have a low degree of toxicity by inhalation. High concentrations of vapors may be irritating to the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness and other central nervous system effects.

MATERIAL SAFETY DATA SHEET

MSDS DATE: October 9, 2009

SECTION 3: HAZARDS IDENTIFICATION cont'd

ACUTE HEALTH HAZARDS: See Acute Effects in Section 11.
CHRONIC HEALTH HAZARDS: None known
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing dermatitis.

CARCINOGENICITY
OSHA: None listed ACGIH: NTP: None listed IARC: None listed
OTHER: Paraffinic distellates RESULTS: Product testing using IP 346 shows a DMSO PAH content of < 3% by weight.

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.
SKIN: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.
INGESTION: If swallowed, do NOT induce vomiting. Keep at rest. Get prompt medical attention.
INHALATION: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: This product is an aspiration hazard.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER:
(% BY VOLUME) LOWER:

FLASH POINT:
F: 170 F (TCC)
C:

METHOD USED:

AUTOIGNITION TEMPERATURE: ND
F:
C:

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide or water spray.

SPECIAL FIRE FIGHTING PROCEDURES: 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 knock down vapors which may result from product decomposition.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Upper Explosive Limit: 5.0
Lower Explosive Limit: 0.7

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

MATERIAL SAFETY DATA SHEET

MSDS DATE: October 9, 2009

SECTION 5 NOTES: This product is flammable in accordance with aerosol flammability definitions (16 CFR 1500.3(3)(6)).

SECTION 6: ACCIDENTAL RELEASE MEASURES

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 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 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Do not use near an open flame, heat or other sources of ignition. Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing.

OTHER PRECAUTIONS: Aerosol Storage Level: III

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Area should have ventilation to provide fresh air.

VENTILATION : Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant 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 PROTECTION: For normal conditions, wear safety glassed. Where there is reasonable probability of liquid contact, wears splash-proof goggles.

SKIN PROTECTION: Use protective gloves such as nitrile or neoprene.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

WORK HYGIENIC PRACTICES:

EXPOSURE GUIDELINES:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	

MATERIAL SAFETY DATA SHEET

MSDS DATE: October 9, 2009

Hydrotreated light distillates mg/m3	NE	NE	NE	NE	1200	mfr
Solvent-refined heavy paraffinic distillates	5*	NE	5*	NE	NE	mg/m3
Inhibitor blend	NE	NE	NE	NE	NE	
Carbon dioxide ppm	5000		30000(v)	5000	30,000	NE
N.E. – Not Established (c) - ceiling (s) – skin (v) – vacated * - oil mist						

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Blue-green

ODOR: Pleasant

PHYSICAL STATE: Liquid

pH AS SUPPLIED: NA

pH (Other):

BOILING POINT: 380 F

F:

C:

MELTING POINT:

F:

C:

FREEZING POINT: ND

F:

C:

VAPOR PRESSURE (mmHg): ND

@

F:

C:

VAPOR DENSITY (AIR = 1): > 1 (air = 1)

@

F:

C:

SPECIFIC GRAVITY (H2O = 1): 0.8187

@

F:

C:

EVAPORATION RATE: ND (butyl acetate = 1)

BASIS (=1):

SOLUBILITY IN WATER: negligible

PERCENT SOLIDS BY WEIGHT:

PERCENT VOLATILE:

BY WT/ BY VOL @

F:

C:

VOLATILE ORGANIC COMPOUNDS (VOC): wt %: 39.1

WITH WATER: LBS/GAL 320.1

MATERIAL SAFETY DATA SHEET

MSDS DATE: October 9, 2009

WITHOUT WATER: LBS/GAL 2.67

MOLECULAR WEIGHT: N/A

VISCOSITY:

@

F:

C:

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY:

X

CONDITIONS TO AVOID (STABILITY): Temperature extremes, sources of ignition

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of carbon, oxides of sulfur, hydrocarbons

HAZARDOUS POLYMERIZATION:

CONDITIONS TO AVOID (POLYMERIZATION):

SECTION 10 NOTES

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Long-term toxicological studies have been conducted for this product. The following is Available for components of this product.

ACUTE EFFECTS

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Hydrotreated light distillate	LD50	> 5 g//kg	Oral	Rat
Hydrotreated light distillate	LD50	> 2 g//kg	Dermal	Rat
Hydrotreated ligh distillate	LC50	> 5 mg/L/4H	Inhalation	Rat

CHROMIC EFFECTS

Carcinogenicity:

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

Other: Paraffinic distillates Product testing using IP 346 shows a DMSC PAH content of <3% by weight.

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Ecological studies have been conducted for this product. The following is available for components of this product.

MATERIAL SAFETY DATA SHEET

MSDS DATE: October 9, 2009

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

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Aerosol containers should be fully emptied and depressurized before disposal. The empty container can be recycled.

RCRA HAZARD CLASS: No (See 40 CFR Part 261.20 – 261.33)

SECTION 13 NOTES: 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

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP: ORM-D
LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

Toxic Substance Control Act (TSCA):

All ingredients are 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:

302 Extremely Hazardous Substances (EHS): None

MATERIAL SAFETY DATA SHEET

MSDS DATE: October 9, 2009

311/312 HAZARD CATEGORIES: Fire Yes
Reactive Hazard No
Release of Pressure Yes
Acute Health Hazard Yes
Chronic Health Hazard No

313 REPORTABLE INGREDIENTS: 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 (HAP's): None

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: None
Pennsylvania: None
Massachusetts: None
Rhode Island: None

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: In states with Consumer Products VOC regulations, this product is compliant as a Multi-Purpose Lubricant.

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

NFPA HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0
OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0
PROTECTION: B

PREPARATION INFORMATION:

DISCLAIMER: 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 Vermont Precision Tools, Inc. (VPT)'s knowledge or obtained from sources believed by VPT to be accurate. Before using any product, read all warnings and directions on the label.

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

MATERIAL SAFETY DATA SHEET

MSDS DATE: October 9, 2009

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