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SDS

Common Name: DRY MOLY LUBE 03084

Manufacturer: CRC

SDS Revision Date: 2/26/2015

SDS Format: GHS-US

Grainger Item Number(s): 2F138

Manufacturer Model Number(s):

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CRC (R*)

SAFETY DATA SHEET

1. IDENTIFICATION



PRODUCT IDENTIFIER: DRY MOLY LUBE

OTHER MEANS OF IDENTIFICATION:

PRODUCT CODE: 03084

RECOMMENDED USE: DRY FILM LUBRICANT

RECOMMENDED RESTRICTIONS: NONE KNOWN.

MANUFACTURER/IMPORTER/SUPPLIER/DISTRIBUTOR INFORMATION:

MANUFACTURED OR SOLD BY:

COMPANY NAME: CRC INDUSTRIES, INC.

ADDRESS:

885 LOUIS DR.

WARMINSTER, PA 18974
US

TELEPHONE:
GENERAL INFORMATION: 215-674-4300
TECHNICAL ASSISTANCE: 800-521-3168

CUSTOMER SERVICE: 800-272-4620

24-HOUR EMERGENCY (CHEMTREC):
800-424-9300 (US)
703-527-3887 (INTERNATIONAL)

WEBSITE: WWW.CRCINDUSTRIES.COM

2. HAZARD(S) IDENTIFICATION



PHYSICAL HAZARDS:
FLAMMABLE AEROSOLS: CATEGORY 1
GASES UNDER PRESSURE: LIQUEFIED GAS

HEALTH HAZARDS:

SERIOUS EYE DAMAGE/EYE IRRITATION: CATEGORY 2

REPRODUCTIVE TOXICITY (THE UNBORN CHILD): CATEGORY 2

SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE:
CATEGORY 3 RESPIRATORY TRACT IRRITATION

SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE:
CATEGORY 3 NARCOTIC EFFECTS

SPECIFIC TARGET ORGAN TOXICITY, REPEATED EXPOSURE: CATEGORY 2

ASPIRATION HAZARD: CATEGORY 1

ENVIRONMENTAL HAZARDS:

HAZARDOUS TO THE AQUATIC ENVIRONMENT, ACUTE HAZARD: CATEGORY 3

HAZARDOUS TO THE AQUATIC ENVIRONMENT, LONG-TERM HAZARD: CATEGORY 3

OSHA DEFINED HAZARDS: NOT CLASSIFIED.

LABEL ELEMENTS:
FLAME
GAS CYLINDER
HEALTH HAZARD
EXCLAMATION MARK

SIGNAL WORD: DANGER

HAZARD STATEMENT:
EXTREMELY FLAMMABLE AEROSOL.

PRESSURIZED CONTAINER:
MAY BURST IF HEATED. CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED.
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES SERIOUS EYE
IRRITATION. MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS OR
DIZZINESS. SUSPECTED OF DAMAGING THE UNBORN CHILD. MAY CAUSE DAMAGE TO
ORGANS (BRAIN, NERVOUS SYSTEM) THROUGH PROLONGED OR REPEATED EXPOSURE.
HARMFUL TO AQUATIC LIFE. HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

PRECAUTIONARY STATEMENT:

PREVENTION:

OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING. DO NOT SPRAY ON AN OPEN FLAME OR OTHER IGNITION SOURCE. DO NOT APPLY WHILE EQUIPMENT IS ENERGIZED. DO NOT PIERCE OR BURN, EVEN AFTER USE. EXTINGUISH ALL FLAMES, PILOT LIGHTS AND HEATERS. VAPORS WILL ACCUMULATE READILY AND MAY IGNITE. USE ONLY WITH ADEQUATE VENTILATION; MAINTAIN VENTILATION DURING USE AND UNTIL ALL VAPORS ARE GONE. OPEN DOORS AND WINDOWS OR USE OTHER MEANS TO ENSURE A FRESH AIR SUPPLY DURING USE AND WHILE PRODUCT IS DRYING. IF YOU EXPERIENCE ANY SYMPTOMS LISTED ON THIS LABEL, INCREASE VENTILATION OR LEAVE THE AREA. DO NOT BREATHE GAS. DO NOT BREATHE MIST OR VAPOR. WASH THOROUGHLY AFTER HANDLING. WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. AVOID RELEASE TO THE ENVIRONMENT.

RESPONSE:

IF SWALLOWED:

IMMEDIATELY CALL A POISON CENTER/DOCTOR. DO NOT INDUCE VOMITING.

IF INHALED:

REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. CALL A POISON CENTER/DOCTOR IF YOU FEEL UNWELL.

IF IN EYES:

RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

IF EYE IRRITATION PERSISTS: GET MEDICAL ATTENTION.

IF EXPOSED OR CONCERNED:

GET MEDICAL ATTENTION. CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.

STORAGE:

STORE IN A WELL-VENTILATED PLACE. STORE LOCKED UP. PROTECT FROM SUNLIGHT. DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C/122 DEG. F. EXPOSURE TO HIGH TEMPERATURE MAY CAUSE CAN TO BURST.

DISPOSAL:

DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL REGULATIONS.

HAZARD(S) NOT OTHERWISE CLASSIFIED (HNOC): NONE KNOWN.

3. COMPOSITION/INFORMATION ON INGREDIENTS



MIXTURES:

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS NUMBER	%
ACETONE		67-64-1	30 - 40
ISOPROPYL ALCOHOL		67-63-0	20 - 30
N-BUTANE		106-97-8	20 - 30
PROPANE		74-98-6	5 - 10
HEPTANE, BRANCHED, CYCLIC AND LINEAR		426260-76-6	3 - 5
MOLYBDENUM DISULPHIDE		1317-33-5	1 - 3
N-HEPTANE		142-82-5	1 - 3
SOLVENT NAPHTHA (PETROLEUM),		64742-88-7	1 - 3

MEDIUM ALIPH.

SPECIFIC CHEMICAL IDENTITY AND/OR PERCENTAGE OF COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET.

4. FIRST-AID MEASURES



INHALATION:

REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.

SKIN CONTACT:

RINSE SKIN WITH WATER/SHOWER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.

EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.

INGESTION:

CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. RINSE MOUTH. DO NOT INDUCE VOMITING. IF VOMITING OCCURS, KEEP HEAD LOW SO THAT STOMACH CONTENT DOESN'T GET INTO THE LUNGS.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

MAY CAUSE DROWSINESS AND DIZZINESS. HEADACHE. NAUSEA, VOMITING. IRRITATION OF NOSE AND THROAT. ASPIRATION MAY CAUSE PULMONARY EDEMA AND PNEUMONITIS. SEVERE EYE IRRITATION. SYMPTOMS MAY INCLUDE STINGING, TEARING, REDNESS, SWELLING, AND BLURRED VISION. MAY CAUSE RESPIRATORY IRRITATION. PROLONGED EXPOSURE MAY CAUSE CHRONIC EFFECTS.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

PROVIDE GENERAL SUPPORTIVE MEASURES AND TREAT SYMPTOMATICALLY. KEEP VICTIM UNDER OBSERVATION. SYMPTOMS MAY BE DELAYED.

GENERAL INFORMATION:

IF EXPOSED OR CONCERNED:

GET MEDICAL ADVICE/ATTENTION. ENSURE THAT MEDICAL PERSONNEL ARE AWARE OF THE MATERIAL(S) INVOLVED, AND TAKE PRECAUTIONS TO PROTECT THEMSELVES. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

ALCOHOL RESISTANT FOAM. WATER FOG. DRY CHEMICAL POWDER. CARBON DIOXIDE (CO₂).

UNSUITABLE EXTINGUISHING MEDIA: NONE KNOWN.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

CONTENTS UNDER PRESSURE. PRESSURIZED CONTAINER MAY RUPTURE WHEN EXPOSED TO HEAT OR FLAME. DURING FIRE, GASES HAZARDOUS TO HEALTH MAY BE FORMED.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

FIREFIGHTERS MUST USE STANDARD PROTECTIVE EQUIPMENT INCLUDING FLAME RETARDANT COAT, HELMET WITH FACE SHIELD, GLOVES, RUBBER BOOTS, AND IN ENCLOSED SPACES, SCBA.

FIRE-FIGHTING EQUIPMENT/INSTRUCTIONS:

IN CASE OF FIRE:

STOP LEAK IF SAFE TO DO SO. MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK. CONTAINERS SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD UP.

GENERAL FIRE HAZARDS:

EXTREMELY FLAMMABLE AEROSOL. CONTENTS UNDER PRESSURE. PRESSURIZED CONTAINER MAY RUPTURE WHEN EXPOSED TO HEAT OR FLAME.

6. ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**

KEEP UNNECESSARY PERSONNEL AWAY. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. KEEP OUT OF LOW AREAS. MANY GASES ARE HEAVIER THAN AIR AND WILL SPREAD ALONG GROUND AND COLLECT IN LOW OR CONFINED AREAS (SEWERS, BASEMENTS, TANKS). WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND CLOTHING DURING CLEAN-UP. DO NOT BREATHE MIST OR VAPOR. DO NOT BREATHE GAS. EMERGENCY PERSONNEL NEED SELF-CONTAINED BREATHING EQUIPMENT. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. VENTILATE CLOSED SPACES BEFORE ENTERING THEM. LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE CONTAINED. FOR PERSONAL PROTECTION, SEE SECTION 8 OF THE SDS.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). KEEP COMBUSTIBLES (WOOD, PAPER, OIL, ETC.) AWAY FROM SPILLED MATERIAL. STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK. WIPE UP WITH ABSORBENT MATERIAL (E.G. CLOTH, FLEECE). CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION. FOR WASTE DISPOSAL, SEE SECTION 13 OF THE SDS. PREVENT ENTRY INTO WATERWAYS, SEWER, BASEMENTS OR CONFINED AREAS.

ENVIRONMENTAL PRECAUTIONS:

AVOID RELEASE TO THE ENVIRONMENT. PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. AVOID DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. INFORM APPROPRIATE MANAGERIAL OR SUPERVISORY PERSONNEL OF ALL ENVIRONMENTAL RELEASES.

7. HANDLING AND STORAGE**PRECAUTIONS FOR SAFE HANDLING:**

OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

PRESSURIZED CONTAINER:

DO NOT PIERCE OR BURN, EVEN AFTER USE. DO NOT USE IF SPRAY BUTTON IS MISSING OR DEFECTIVE. DO NOT SPRAY ON A NAKED FLAME OR ANY OTHER INCANDESCENT MATERIAL. DO NOT SMOKE WHILE USING OR UNTIL SPRAYED SURFACE IS THOROUGHLY DRY. DO NOT CUT, WELD, SOLDER, DRILL, GRIND, OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION. 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. DO NOT BREATHE MIST OR VAPOR. DO NOT BREATHE GAS. AVOID CONTACT WITH EYES. AVOID PROLONGED EXPOSURE. PREGNANT OR BREASTFEEDING WOMEN MUST NOT HANDLE THIS PRODUCT. SHOULD BE HANDLED IN CLOSED SYSTEMS, IF POSSIBLE. USE ONLY IN WELL-VENTILATED AREAS. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. WASH HANDS THOROUGHLY AFTER HANDLING. AVOID RELEASE TO THE ENVIRONMENT. OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES. FOR PRODUCT USAGE INSTRUCTIONS, PLEASE SEE THE PRODUCT LABEL.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

LEVEL 3 AEROSOL.

PRESSURIZED CONTAINER. PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C/122 DEG. F. DO NOT PUNCTURE, INCINERATE OR CRUSH. DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. THIS MATERIAL CAN ACCUMULATE STATIC CHARGE WHICH MAY CAUSE SPARK AND BECOME AN IGNITION SOURCE. STORE IN A WELL-VENTILATED PLACE. STORE AWAY

FROM INCOMPATIBLE MATERIALS (SEE SECTION 10 OF THE SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



OCCUPATIONAL EXPOSURE LIMITS:

US. OSHA TABLE Z-1 LIMITS FOR AIR CONTAMINANTS (29 CFR 1910.1000):

COMPONENTS	TYPE	VALUE	FORM
ACETONE (CAS 67-64-1)	PEL	2400 MG/M3 1000 PPM	
ISOPROPYL ALCOHOL (CAS 67-63-0)	PEL	980 MG/M3 400 PPM	
MOLYBDENUM DISULPHIDE (CAS 1317-33-5)	PEL	15 MG/M3	TOTAL DUST.
N-HEPTANE (CAS 142-82-5)	PEL	2000 MG/M3 500 PPM	
PROPANE (CAS 74-98-6)	PEL	1800 MG/M3 1000 PPM	

US. OSHA TABLE Z-2 (29 CFR 1910.1000):

COMPONENTS	TYPE	VALUE
TOLUENE (CAS 108-88-3)	CEILING	300 PPM
	TWA	200 PPM

US. ACGIH THRESHOLD LIMIT VALUES:

COMPONENTS	TYPE	VALUE	FORM
ACETONE (CAS 67-64-1)	STEL	750 PPM	
	TWA	500 PPM	
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	400 PPM	
	TWA	200 PPM	
MOLYBDENUM DISULPHIDE (CAS 1317-33-5)	TWA	3 MG/M3	RESPIRABLE FRACTION.
		10 MG/M3	INHALABLE FRACTION.
N-BUTANE (CAS 106-97-8)	STEL	1000 PPM	
N-HEPTANE (CAS 142-82-5)	STEL	500 PPM	
	TWA	400 PPM	
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. (CAS 64742-88-7)	TWA	200 MG/M3	NON-AEROSOL.
TOLUENE (CAS 108-88-3)	TWA	20 PPM	

US. NIOSH: POCKET GUIDE TO CHEMICAL HAZARDS

COMPONENTS	TYPE	VALUE
ACETONE (CAS 67-64-1)	TWA	590 MG/M3 250 PPM
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	1225 MG/M3
		500 PPM

	TWA	980 MG/M3 400 PPM
N-BUTANE (CAS 106-97-8)	TWA	1900 MG/M3 800 PPM
N-HEPTANE (CAS 142-82-5)	CEILING	1800 MG/M3 440 PPM
	TWA	350 MG/M3 85 PPM
PROPANE (CAS 74-98-6)	TWA	1800 MG/M3 1000 PPM
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. (CAS 64742-88-7)	TWA	100 MG/M3
TOLUENE (CAS 108-88-3)	STEL	560 MG/M3 150 PPM
	TWA	375 MG/M3 100 PPM

BIOLOGICAL LIMIT VALUES:

ACGIH BIOLOGICAL EXPOSURE INDICES:

COMPONENTS	VALUE	DETERMINANT	SPECIMEN	SAMPLING TIME
ACETONE (CAS 67-64-1)	50 MG/L	ACETONE	URINE	*
ISOPROPYL ALCOHOL (CAS 67-63-0)	40 MG/L	ACETONE	URINE	*
TOLUENE (CAS 108-88-3)	0.3 MG/G	O-CRESOL, WITH HYDROLYSIS	CREATININE IN URINE	*
	0.03 MG/L	TOLUENE	URINE	*
	0.02 MG/L	TOLUENE	BLOOD	*

* - FOR SAMPLING DETAILS, PLEASE SEE THE SOURCE DOCUMENT.

EXPOSURE GUIDELINES:

US - CALIFORNIA OELS	SKIN DESIGNATION
TOLUENE (CAS 108-88-3)	CAN BE ABSORBED THROUGH THE SKIN.
US - MINNESOTA HAZ SUBS	SKIN DESIGNATION APPLIES
TOLUENE (CAS 108-88-3)	SKIN DESIGNATION APPLIES.
US ACGIH THRESHOLD LIMIT VALUES	SKIN DESIGNATION
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. (CAS 64742-88-7)	CAN BE ABSORBED THROUGH THE SKIN.

APPROPRIATE ENGINEERING CONTROLS:

GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES PER HOUR) SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS. IF APPLICABLE, USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

IF EXPOSURE LIMITS HAVE NOT BEEN ESTABLISHED, MAINTAIN AIRBORNE LEVELS TO AN ACCEPTABLE LEVEL. PROVIDE EYEWASH STATION.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).

SKIN PROTECTION:

HAND PROTECTION:

WEAR PROTECTIVE GLOVES SUCH AS: NITRILE. NEOPRENE.

OTHER:

WEAR SUITABLE PROTECTIVE CLOTHING. USE OF AN IMPERVIOUS APRON IS RECOMMENDED.

RESPIRATORY PROTECTION:

IF ENGINEERING CONTROLS ARE NOT FEASIBLE OR IF EXPOSURE EXCEEDS THE APPLICABLE EXPOSURE LIMITS, USE A NIOSH-APPROVED CARTRIDGE RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE. USE A SELF-CONTAINED BREATHING APPARATUS IN CONFINED SPACES AND FOR EMERGENCIES. AIR MONITORING IS NEEDED TO DETERMINE ACTUAL EMPLOYEE EXPOSURE LEVELS.

THERMAL HAZARDS:

WEAR APPROPRIATE THERMAL PROTECTIVE CLOTHING, WHEN NECESSARY.

GENERAL HYGIENE CONSIDERATIONS:

WHEN USING, DO NOT EAT, DRINK OR SMOKE. ALWAYS OBSERVE GOOD PERSONAL HYGIENE MEASURES, SUCH AS WASHING AFTER HANDLING THE MATERIAL AND BEFORE EATING, DRINKING, AND/OR SMOKING. ROUTINELY WASH WORK CLOTHING AND PROTECTIVE EQUIPMENT TO REMOVE CONTAMINANTS.

9. PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE:

PHYSICAL STATE: LIQUID.

FORM: AEROSOL.

COLOR: GRAY.

ODOR: SOLVENT.

ODOR THRESHOLD: NOT AVAILABLE.

PH: NOT AVAILABLE.

MELTING POINT/FREEZING POINT: NOT AVAILABLE.

INITIAL BOILING POINT AND BOILING RANGE:

<395 DEG. F (<201.7 DEG. C)

FLASH POINT: <0 DEG. F (<-17.8 DEG. C) TAG CLOSED CUP

EVAPORATION RATE: NOT AVAILABLE.

FLAMMABILITY (SOLID, GAS): NOT AVAILABLE.

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:

FLAMMABILITY LIMIT - LOWER (%): 1%

FLAMMABILITY LIMIT - UPPER (%): 12.8%

VAPOR PRESSURE: 1494.5 HPA ESTIMATED

VAPOR DENSITY: >1 (AIR = 1)

RELATIVE DENSITY: 0.71

SOLUBILITY (WATER): NOT AVAILABLE.

PARTITION COEFFICIENT (N-OCTANOL/WATER): NOT AVAILABLE.

AUTO-IGNITION TEMPERATURE: 410 DEG. F (210 DEG. C) ESTIMATED

DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

VISCOSITY (KINEMATIC): NOT AVAILABLE.

PERCENT VOLATILE: 98%

10. STABILITY AND REACTIVITY



REACTIVITY:

THE PRODUCT IS STABLE AND NON-REACTIVE UNDER NORMAL CONDITIONS OF USE, STORAGE AND TRANSPORT.

CHEMICAL STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS:

NO DANGEROUS REACTION KNOWN UNDER CONDITIONS OF NORMAL USE.

CONDITIONS TO AVOID:

HEAT, FLAMES AND SPARKS. CONTACT WITH INCOMPATIBLE MATERIALS.

INCOMPATIBLE MATERIALS:

ACIDS. STRONG OXIDIZING AGENTS. NITRATES. ISOCYANATES. FLUORINE. CHLORINE.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES.

11. TOXICOLOGICAL INFORMATION



INFORMATION ON LIKELY ROUTES OF EXPOSURE:

INGESTION:

DROPLETS OF THE PRODUCT ASPIRATED INTO THE LUNGS THROUGH INGESTION OR VOMITING MAY CAUSE A SERIOUS CHEMICAL PNEUMONIA.

INHALATION:

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE BY INHALATION. MAY CAUSE DROWSINESS AND DIZZINESS. HEADACHE. NAUSEA, VOMITING. MAY CAUSE IRRITATION TO THE RESPIRATORY SYSTEM. PROLONGED INHALATION MAY BE HARMFUL.

SKIN CONTACT: PROLONGED SKIN CONTACT MAY CAUSE TEMPORARY IRRITATION.

EYE CONTACT: CAUSES SERIOUS EYE IRRITATION.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

MAY CAUSE DROWSINESS AND DIZZINESS. HEADACHE. NAUSEA, VOMITING. IRRITATION OF NOSE AND THROAT. ASPIRATION MAY CAUSE PULMONARY EDEMA AND PNEUMONITIS. SEVERE EYE IRRITATION. SYMPTOMS MAY INCLUDE STINGING, TEARING, REDNESS, SWELLING, AND BLURRED VISION. MAY CAUSE RESPIRATORY IRRITATION.

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. NARCOTIC EFFECTS. MAY CAUSE RESPIRATORY IRRITATION.

PRODUCT	SPECIES	TEST RESULTS
DRY MOLY LUBE:		
ACUTE:		
DERMAL:		
LD50	RABBIT	9027.8184 MG/KG ESTIMATED
INHALATION:		
LC50	RAT	25927.2324 PPM, 4 HOURS ESTIMATED 1108.0551 MG/L, 4 HOURS ESTIMATED
ORAL:		
LD50	RAT	8209.0645 MG/KG ESTIMATED

* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

SKIN CORROSION/IRRITATION:
PROLONGED SKIN CONTACT MAY CAUSE TEMPORARY IRRITATION.

SERIOUS EYE DAMAGE/EYE IRRITATION: CAUSES SERIOUS EYE IRRITATION.

RESPIRATORY SENSITIZATION: NOT AVAILABLE.

SKIN SENSITIZATION:
THIS PRODUCT IS NOT EXPECTED TO CAUSE SKIN SENSITIZATION.

GERM CELL MUTAGENICITY:
NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS PRESENT AT GREATER THAN 0.1% ARE MUTAGENIC OR GENOTOXIC.

CARCINOGENICITY:
THIS PRODUCT IS NOT CONSIDERED TO BE A CARCINOGEN BY IARC, ACGIH, NTP, OR OSHA.

REPRODUCTIVE TOXICITY: SUSPECTED OF DAMAGING THE UNBORN CHILD.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:
MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS AND DIZZINESS.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE:
BRAIN. NERVOUS SYSTEM.

ASPIRATION HAZARD:
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. IF ASPIRATED INTO LUNGS DURING SWALLOWING OR VOMITING, MAY CAUSE CHEMICAL PNEUMONIA, PULMONARY INJURY OR DEATH.

CHRONIC EFFECTS:
PROLONGED INHALATION MAY BE HARMFUL. MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

12. ECOLOGICAL INFORMATION



ECOTOXICITY: HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

PRODUCT	SPECIES	TEST RESULTS
DRY MOLY LUBE:		
AQUATIC:		
CRUSTACEA	EC50 DAPHNIA	3794.1357 MG/L, 48 HOURS ESTIMATED

ACUTE:

FISH	LC50	FISH	91.3044 MG/L, 96 HOURS ESTIMATED
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COMPONENTS		SPECIES	TEST RESULTS
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ACETONE (CAS 67-64-1):

AQUATIC:

CRUSTACEA	EC50	WATER FLEA (DAPHNIA MAGNA)	21.6 - 23.9 MG/L, 48 HOURS
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FISH	LC50	RAINBOW TROUT, DONALDSON TROUT (ONCORHYNCHUS MYKISS)	4740 - 6330 MG/L, 96 HOURS
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ISOPROPYL ALCOHOL (CAS 67-63-0):

AQUATIC:

FISH	LC50	BLUEGILL (LEPOMIS MACROCHIRUS)	>1400 MG/L, 96 HOURS
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N-HEPTANE (CAS 142-82-5):

AQUATIC:

ACUTE:

FISH	LC50	FATHEAD MINNOW (PIMEPHALES PROMELAS)	2.1 - 2.98 MG/L, 96 HOURS
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* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

PERSISTENCE AND DEGRADABILITY:

NO DATA IS AVAILABLE ON THE DEGRADABILITY OF THIS PRODUCT.

BIOACCUMULATIVE POTENTIAL: NO DATA AVAILABLE.

PARTITION COEFFICIENT N-OCTANOL / WATER (LOG KOW):

ACETONE: -0.24

ISOPROPYL ALCOHOL: 0.05

N-BUTANE: 2.89

N-HEPTANE: 4.66

PROPANE: 2.36

MOBILITY IN SOIL: NO DATA AVAILABLE.

OTHER ADVERSE EFFECTS:

NO OTHER ADVERSE ENVIRONMENTAL EFFECTS (E.G. OZONE DEPLETION, PHOTOCHEMICAL OZONE CREATION POTENTIAL, ENDOCRINE DISRUPTION, GLOBAL WARMING POTENTIAL) ARE EXPECTED FROM THIS COMPONENT.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF WASTE FROM RESIDUES / UNUSED PRODUCTS:

IF DISCARDED, THIS PRODUCT IS CONSIDERED A RCRA IGNITABLE WASTE, D001. COLLECT AND RECLAIM OR DISPOSE IN SEALED CONTAINERS AT LICENSED WASTE DISPOSAL SITE. CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE OR CRUSH. DO NOT ALLOW THIS MATERIAL TO DRAIN INTO SEWERS/WATER SUPPLIES. DO NOT CONTAMINATE PONDS, WATERWAYS OR DITCHES WITH CHEMICAL OR USED CONTAINER. DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

HAZARDOUS WASTE CODE:

D001: WASTE FLAMMABLE MATERIAL WITH A FLASH POINT <140 F

CONTAMINATED PACKAGING:

EMPTY CONTAINERS SHOULD BE TAKEN TO AN APPROVED WASTE HANDLING SITE FOR RECYCLING OR DISPOSAL. SINCE EMPTIED CONTAINERS MAY RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

14. TRANSPORT INFORMATION

DOT:

UN NUMBER: UN1950

UN PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE, LIMITED QUANTITY

TRANSPORT HAZARD CLASS(ES):

CLASS: 2.1

SUBSIDIARY RISK:

LABEL(S): 2.1

PACKING GROUP: NOT APPLICABLE.

SPECIAL PRECAUTIONS FOR USER:

READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

SPECIAL PROVISIONS: N82

PACKAGING EXCEPTIONS: 306

PACKAGING NON BULK: NONE

PACKAGING BULK: NONE

IATA:

UN NUMBER: UN1950

UN PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE, LIMITED QUANTITY

TRANSPORT HAZARD CLASS(ES):

CLASS: 2.1

SUBSIDIARY RISK:

PACKING GROUP: NOT APPLICABLE.

ENVIRONMENTAL HAZARDS: YES

ERG CODE: 10L

SPECIAL PRECAUTIONS FOR USER:

READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

OTHER INFORMATION:

PASSENGER AND CARGO AIRCRAFT: ALLOWED.

CARGO AIRCRAFT ONLY: ALLOWED.

IMDG:

UN NUMBER: UN1950

UN PROPER SHIPPING NAME: AEROSOLS, LIMITED QUANTITY, MARINE POLLUTANT

TRANSPORT HAZARD CLASS(ES):

CLASS: 2

SUBSIDIARY RISK:

PACKING GROUP: NOT APPLICABLE.

ENVIRONMENTAL HAZARDS:

MARINE POLLUTANT: YES

EMS: F-D, S-U

SPECIAL PRECAUTIONS FOR USER:

READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

15. REGULATORY INFORMATION



US FEDERAL REGULATIONS:

THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

ALL COMPONENTS ARE ON THE U.S. EPA TSCA INVENTORY LIST.

TSCA SECTION 12(B) EXPORT NOTIFICATION (40 CFR 707, SUBPT. D):
NOT REGULATED.

SARA 304 EMERGENCY RELEASE NOTIFICATION: NOT REGULATED.

US. OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050):
NOT LISTED.

US EPCRA (SARA TITLE III) SECTION 313 - LISTED SUBSTANCE
TOXIC CHEMICAL

NOT LISTED.

CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4):

ACETONE (CAS 67-64-1)

ISOPROPYL ALCOHOL (CAS 67-63-0)

TOLUENE (CAS 108-88-3)

CERCLA HAZARDOUS SUBSTANCES	REPORTABLE QUANTITY
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ACETONE (CAS 67-64-1)	5000 LBS
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ISOPROPYL ALCOHOL (CAS 67-63-0)	100 LBS
---------------------------------	---------

TOLUENE (CAS 108-88-3)	1000 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.

CLEAN AIR ACT (CAA) SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS) LIST:
NOT REGULATED.

CLEAN AIR ACT (CAA) SECTION 112(R) ACCIDENTAL RELEASE PREVENTION (40 CFR 68.130):

N-BUTANE (CAS 106-97-8)

PROPANE (CAS 74-98-6)

SAFE DRINKING WATER ACT (SDWA): NOT REGULATED.

DRUG ENFORCEMENT ADMINISTRATION (DEA). LIST 2, ESSENTIAL CHEMICALS (21 CFR 1310.02(B) AND 1310.04(F)(2) AND CHEMICAL CODE NUMBER:

ACETONE (CAS 67-64-1): 6532

TOLUENE (CAS 108-88-3): 6594

DRUG ENFORCEMENT ADMINISTRATION (DEA). LIST 1 & 2 EXEMPT CHEMICAL MIXTURES (21 CFR 1310.12(C)):

ACETONE (CAS 67-64-1): 35% WV

TOLUENE (CAS 108-88-3): 35% WV

DEA EXEMPT CHEMICAL MIXTURES CODE NUMBER:

ACETONE (CAS 67-64-1): 6532

TOLUENE (CAS 108-88-3): 594

FOOD AND DRUG ADMINISTRATION (FDA): NOT REGULATED.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA):

SECTION 311/312 HAZARD CATEGORIES:

IMMEDIATE HAZARD: YES

DELAYED HAZARD: YES

FIRE HAZARD: YES

PRESSURE HAZARD: YES

REACTIVITY HAZARD: NO

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE: NO

US STATE REGULATIONS:

US. CALIFORNIA CONTROLLED SUBSTANCES. CA DEPARTMENT OF JUSTICE (CALIFORNIA HEALTH AND SAFETY CODE SECTION 11100): NOT LISTED.

US. NEW JERSEY WORKER AND COMMUNITY RIGHT-TO-KNOW ACT:

ACETONE (CAS 67-64-1)

N-HEPTANE (CAS 142-82-5)

ISOPROPYL ALCOHOL (CAS 67-63-0)

N-BUTANE (CAS 106-97-8)

PROPANE (CAS 74-98-6)

SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. (CAS 64742-88-7)

TOLUENE (CAS 108-88-3)

US. MASSACHUSETTS RTK - SUBSTANCE LIST:

ACETONE (CAS 67-64-1)

ISOPROPYL ALCOHOL (CAS 67-63-0)

MOLYBDENUM DISULPHIDE (CAS 1317-33-5)

N-BUTANE (CAS 106-97-8)

N-HEPTANE (CAS 142-82-5)

PROPANE (CAS 74-98-6)

SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. (CAS 64742-88-7)

US. PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW LAW:

ACETONE (CAS 67-64-1)

ISOPROPYL ALCOHOL (CAS 67-63-0)

TOLUENE (CAS 108-88-3)

N-BUTANE (CAS 106-97-8)

N-HEPTANE (CAS 142-82-5)

PROPANE (CAS 74-98-6)

SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. (CAS 64742-88-7)

US. RHODE ISLAND RTK:

ACETONE (CAS 67-64-1)

ISOPROPYL ALCOHOL (CAS 67-63-0)

N-BUTANE (CAS 106-97-8)

PROPANE (CAS 74-98-6)

TOLUENE (CAS 108-88-3)

US. CALIFORNIA PROPOSITION 65:

WARNING:

THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

US - CALIFORNIA PROPOSITION 65 - CRT LISTED DATE/CARCINOGENIC SUBSTANCE

BENZENE (CAS 71-43-2) LISTED: FEBRUARY 27, 1987

ETHANAL (CAS 75-07-0) LISTED: APRIL 1, 1988

US - CALIFORNIA PROPOSITION 65 - CRT LISTED DATE/DEVELOPMENTAL TOXIN

BENZENE (CAS 71-43-2) LISTED: DECEMBER 26, 1997

TOLUENE (CAS 108-88-3) LISTED: JANUARY 1, 1991

US - CALIFORNIA PROPOSITION 65 - CRT LISTED DATE/FEMALE REPRODUCTIVE TOXIN

TOLUENE (CAS 108-88-3) LISTED: AUGUST 7, 2009

US - CALIFORNIA PROPOSITION 65 - CRT LISTED DATE/MALE REPRODUCTIVE TOXIN

BENZENE (CAS 71-43-2) LISTED: DECEMBER 26, 1997

VOLATILE ORGANIC COMPOUNDS (VOC) REGULATIONS:

EPA:
 VOC CONTENT (40 CFR 51.100(S)): 61.8%
 CONSUMER PRODUCTS (40 CFR 59, SUBPT. C): NOT REGULATED

STATE:

CONSUMER PRODUCTS:
 THIS PRODUCT IS REGULATED AS A DRY LUBRICANT. THIS PRODUCT IS COMPLIANT FOR USE IN ALL 50 STATES.

VOC CONTENT (CA): 61.8%
 VOC CONTENT (OTC): 61.8%

INTERNATIONAL INVENTORIES:

COUNTRY(S) OR REGION	INVENTORY NAME	ON INVENTORY (YES/NO)*
AUSTRALIA	AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS)	NO
CANADA	DOMESTIC SUBSTANCES LIST (DSL)	YES
CANADA	NON-DOMESTIC SUBSTANCES LIST (NDSL)	NO
CHINA	INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA (IECSC)	NO
EUROPE	EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS)	NO
EUROPE	EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES (ELINCS)	NO
JAPAN	INVENTORY OF EXISTING AND NEW CHEMICAL SUBSTANCES (ENCS)	NO
KOREA	EXISTING CHEMICALS LIST (ECL)	NO
NEW ZEALAND	NEW ZEALAND INVENTORY	NO
PHILIPPINES	PHILIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES (PICCS)	YES
UNITED STATES & PUERTO RICO	TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY	YES

*A "YES" INDICATES THAT ALL COMPONENTS OF THIS PRODUCT COMPLY WITH THE INVENTORY REQUIREMENTS ADMINISTERED BY THE GOVERNING COUNTRY(S)

A "NO" INDICATES THAT ONE OR MORE COMPONENTS OF THE PRODUCT ARE NOT LISTED OR EXEMPT FROM LISTING ON THE INVENTORY ADMINISTERED BY THE GOVERNING COUNTRY(S).

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION

OR LAST REVISION

ISSUE DATE: 02-26-2015

PREPARED BY: ALLISON CHO

VERSION #: 01

FURTHER INFORMATION: NOT AVAILABLE.

HMIS(R*) RATINGS:

HEALTH	2*
FLAMMABILITY	4
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA RATINGS:

HEALTH	2
FLAMMABILITY	4
INSTABILITY	0

NFPA RATINGS:

2
4
0

DISCLAIMER:

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MATERIAL NAME: DRY MOLY LUBE

SDS: US