

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

PRODUCT: **MULTI PURPOSE LITHIUM GREASE**
PRODUCT CODE: **N3124,N3127**

HFWA CODES: **H F R**
 1 1 0

HMS CODES: PERSONAL PROTECTON B

MANUFACTURER: LUBRIMATIC / WITCO

ADDRESS: 1400 SOUTH HARRISON, OLATHE, KANSAS 66061

INFORMATION: 913-782-5800

EMERGENCY: CHEMTREC 800-424-9300

DATE: 5/2003

PREPARER: R. Madariaga

DISTRIBUTOR: NATIONAL REFRIGERATION PRODUCTS

2900 SAMUEL DRIVE · BENSLEM, PA 19020-7306

1-800-352-6951

COMPOSITION, INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS NUM	CONTENTS:	EPA RQ:	TPQ:
PETROLEUM DISTILLATES AND RESIDUAL OILS**		70-100%	NA	NA
CARBON BLACK	1333-86-4	.1-1%	NA	NA

COMPOSITION COMMENTS: REFER TO SECTION EIGHT FOR EXPOSURE LIMITS ON INGREDIENTS
CHEMICAL INGREDIENTS NOT REGULATED BY OSHA OR SARA ARE TREATED CONFIDENTIALLY

** MIXTURE OF CAS REGISTRY NUMGERS 64742-52-5 & 64742-57-0

HAZARDS IDENTIFICATION

EXPOSURE TO VAPORS GENERATED AT HIGH TEMPERATURES MAY CAUSE RESPIRATORY IRRITATION.

CHRONIC EFFECTS:

SENSITIZATION:

NO KNOWN INFORMATION

CARCINOGENICTY:

PRODUCT CONTAINS:

IARC-3 AND NIOSH-X LISTED CARCINOGEN(S)

CARBON BLACK, CAS# 1333-86-4, 0.1-1%

HEALTH WARNINGS:

INHALATION: HEATING CAN GENERATE VAPORS THAT MAY CAUSE RESPIRATORY IRRITATION, NAUSEA, HEADACHE. INHALATION HAZARD AT ROOM TEMPERATURE IS UNLIKELY DUE TO THE LOW VOLATILITY OF THIS PRODUCT.

SKIN CONTACT: REPEATED OR PROLONGED CONTACT CAN RESULT IN DRYING OF THE SKIN. **EYE CONTACT:** IRRITATING.

INGESTION: CAN CAUSE STOMACH ACHE AND VOMITING. MAIN HAZARD, IF INGESTED IS ASPIRATION INTO THE LUNGS AND SUBSEQUENT PNEUMONITIS.

ROUTE OF ENTRY: INHALATION. SKIN AND/OR EYE CONTACT. INGESTION.

MEDICAL SYMPTOMS: MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NOT DETERMINED

FIRST AID MEASURES

INHALATION: VAPOR INHALATION UNDER AMBIENT CONDITIONS IS NORMALLY NOT A PROBLEM. IF OVERCOME BY VAPOR OF HOT PRODUCT, IMMEDIATELY REMOVE FROM SOURCE OF EXPOSURE. MOVE THE EXPOSED PERSON TO FRESH AIR AT ONCE. FOR BREATHING DIFFICULTIES, OXYGEN MAY BE NECESSARY. GET MEDICAL ATTENTION IF ANY DISCOMFORT CONTINUES.

INGESTION: DO NOT INDUCE VOMITING! GET MEDICAL ATTENTION IMMEDIATELY!

SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN THOROUGHLY WITH SOAP AND WATER. GET MEDICAL ATTENTION IF ANY DISCOMFORT CONTINUES.

EYES: RINSE THE EYE WITH WATER IMMEDIATELY. CONTINUE TO RINSE FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IF DISCOMFORT CONTINUES.

FIRE FIGHTING MEASURES

FLASH POINT: 435°F METHOD: Cd OC (CLEVELAND OPEN CUP)

FLAMMABLE LIMITS: LEL: N/D UEL:N/D

EXTINGUISHING MEDIA: USE CO₂, DRY CHEMICAL, SAND, ETC. ALCOHOL RESISTANT FOAM. WATER SPRAY, FOG OR MIST.

SPECIAL FIREFIGHTING PROCEDURES: USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL AND DISPERSE VAPORS. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURES AND DILUTE SPILLS TO NON-FLAMMABLE MIXTURES. AVOID WATER IN STRAIGHT HOSE STREAM; WILL SCATTER AND SPREAD FIRE. KEEP RUN-OFF WATER OUT OF SEWERS AND WATER SOURCES. DIKE FOR WATER CONTROL.

UNUSUAL FIRE AND EXPLOSION HAZARDS: PRESSURE WILL INCREASE IN OVER HEATED, CLOSED CONTAINERS.

HAZARDOUS COMBUSTION PRODUCTS: ACRID SMOKE/FUMES. OXIDES OR CARBON.

PROTECTIVE MEASURES IN CASE OF FIRE: SELF-CONTAINED BREATHING EQUIPMENT AND CHEMICAL RESISTANT CLOTHING RECOMMENDED.

ACCIDENTIAL RELEASE MEASURES

PERSONAL PRECAUTIONS: MINIMIZE SKIN CONTACT.

PRECAUTIONS TO PROTECT THE ENVIRONMENTAL: KEEP PRODUCT OUT OF SEWERS AND WATERCOURSES BY DIKING OR IMPOUNDING. ADVISE AUTHORITIES IF PRODUCT HAS ENTERED OR MAY ENTER SEWERS, WATERCOURSES OR EXTENSIVE LAND AREAS. ASSURE CONFORMITY WITH APPLICABLE GOVERNMENT REGULATIONS.

SPILL CLEAN-UP PROCEDURES: KEEP ALL SOURCES OF IGNITION AND HOT METAL SURFACES AWAY FROM SPILL. AVOID CONTACT WITH EYES OR SKIN. PLACE LEAKING CONTAINERS IN WELL VENTILATED AREA. IF FIRE POTENTIAL EXISTS, BLANKET SPILL WITH FOAM OR USE WATER SPRAY TO DISPERSE VAPORS. CONTAIN SPILL TO MINIMIZE CONTAMINATED AREA AND FACILITATE SALVAGE OR DISPOSAL. TO CLEAN UP SPILL, FLUSH AREA SPARINGLY WITH WATER OR USE ABSORBANT MATERIAL. AVOID DISCHARGE TO NATURAL WATER WAYS.

HANDLING AND STORAGE

HANDLING PRECAUTIONS: KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. VENTILATE WELL, AVOID BREATHING VAPORS. USE APPROVED RESPIRATOR IF AIR CONTAMINATION IS ABOVE ACCEPTED LEVEL. DO NOT REUSE CONTAINER. KEEP LID CLOSED WHEN NOT IN USE. DO NOT STORE OR MIX WITH STRONG OXIDIZERS. AVOID SPILLING, SKIN AND EYE CONTACT. EYE WASH AND EMERGENCY SHOWER MUST BE AVAILABLE AT THE WORKPLACE.

STORAGE PRECAUTIONS: STORE SEPARATE FROM STRONG ACIDS AND OXIDIZERS. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

STORAGE CRITERIA: CHEMICAL STORAGE.

EXPOSURE CONTROLS, PERSONAL PROTECTION

INGREDIENT NAME:	CAS NO:	OSHA PEL:		ACGIH TLV:		OTHER:		UNITS:
		TWA:	STEL:	TWA:	STEL:	TWA:	STEL:	
PETROLEUM DISTILLATES AND RESIDUAL OILS		5	NAV	5	10	NAV	NAV	MG/M3
CARBON BLACK	1333-86-4	3.5	NE	3.5	NE	3.5	NE	MG/M3

ENGINEERING CONTROLS: USE ENGINEERING CONTROLS TO REDUCE AIR CONTAMINATION TO PERMISSIBLE EXPOSURE LEVEL.

VENTILATION: NO SPECIFIC VENTILATION REQUIREMENTS NOTED, BUT FORCED VENTILATION MAY STILL BE REQUIRED IF AIR CONTAMINATION EXCEEDS ACCEPTABLE LEVEL.

RESPIRATORS: NO SPECIFIC RECOMMENDATION MADE, BUT RESPIRATORY PROTECTION MAY STILL BE REQUIRED UNDER EXCEPTIONAL CIRCUMSTANCES WHEN EXCESSIVE AIR CONTAMINATION EXISTS.

PROTECTIVE GLOVES: CHEMICAL RESISTANT GLOVES RECOMMENDED TO PREVENT PROLONGED OR REPEATED CONTACT.

PROTECTIVE CLOTHING: WEAR APPROPRIATE CLOTHING TO PREVENT REPEATED OR PROLONGED SKIN CONTACT.

HYGIENIC WORK PRACTICES: WASH AT THE END OF EACH WORK SHIFT AND BEFORE EATING, SMOKING AND USING THE TOILET.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE:	GREASE
COLOR:	BLACK
ODOR:	MILD (OR FAINT) PETROLEUM
SOLUBILITY DESCRIPTION:	INSOLUBLE IN WATER
SOLUBILITY VALUE (g/100g H2O 68 DEG. F):	<0.1
DENSITY/SPECIFIC GRAVITY (g/ml):	0.90 TEMPERATURE (F) 61
VAPOR DENSITY (AIR=1):	>5
VAPOR PRESSURE:	<0.01 mmHg TEMPERATURE (F) 68
EVAPORATION RATE:	<1 REFERENCE: BuAc=1
Ph-VALUE, CONC. SOLUTION:	NA

STABILITY AND REACTIVITY

STABILITY: NORMALLY STABLE

CONDITIONS TO AVOID: AVOID CONTACT WITH ACIDS AND OXIDIZING SUBSTANCES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

POLYMERIZATION DESCRIPTION: NA

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: OXIDES OF CARBON.

TOXICOLOGICAL INFORMATION

NO EXPERIMENTAL TOXICOLOGICAL DATA ON THE PREPARATION AS SUCH IS AVAILABLE.

ECOLOGICAL INFORMATION

THERE IS NO ECOLOGICAL DATA ON THE PRODUCT ITSELF.

DISPOSAL CONSIDERATIONS

SPILLED MATERIAL, UNUSED CONTENTS AND EMPTY CONTAINERS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

TRANSPORT INFORMATION

U.S. DOT: NOT REGULATED

REGULATORY INFORMATION

REGULATORY STATUS OF INGREDIENTS:

NAME:	TSCA:	CERCLA:	SARA 302	SARA 313	DSL (CAN)
PETROLEUM DISTILLATES AND RESIDUAL OILS	YES	NA	NA	NA	YES
CARBON BLACK	YES	NA	NA	NA	
YES					

FEDERAL REGULATIONS:

REGULATORY STATUS: THIS PRODUCT OR ITS COMPONENTS, IF A MIXTURE, IS SUBJECT TO FOLLOWING REGULATION (NOT MEANT TO BE ALL INCLUSIVE-SELECTED REGULATION REPRESENTED). **TSCA:** THE INGREDIENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY. **SARA 311 CATEGORIES:** NONE. **SECTION 313:** THIS PRODUCT MAY CONTAIN TOXIC CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE 111 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372. ZINC COMPOUNDS UP TO 3% AND ANTIMONY COMPOUNDS UP TO 0.5%

DISCLAIMER

INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BELIEVED TO BE ACCURATE AT THE TIME OF PREPARATION. NO WARRANTY IS MADE CONCERNING THE ACCURACY AND NO LIABILITY SHALL BE MADE FOR CLAIMS FOR USE OR RELIANCE OF THE RECOMMENDATIONS CONTAINED HEREIN.