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MATERIAL SAFETY DATA SHEET

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K-G SPRAY-PAK INC.
8001 KEELE STREET, P.O BOX 89
CONCORD; L4K 1Y8; ONTARIO
CANADA 905-669-9855

PRODUCT: 1808-23-001 14-217 HI TEMP COPPER LUBE 403G



Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER K-G SPRAY-PAK INC.
8001 KEELE STREET P.O. BOX 89
ONTARIO
CANADA
L4K 1Y8
CANUTEC EMERGENCY #:1-613-996-6666(24HR)
1808-23-001 14-217 HI TEMP COPPER LUBE 403G
PRODUCT NAME.....
CHEMICAL FAMILY..... HYDROCARBONS.
MOLECULAR WEIGHT..... NOT APPLICABLE.
CHEMICAL FORMULA..... MIXTURE.
TRADE NAMES & SYNONYMS..... 1808-23-001 14-217 HI TEMP COPPER LUBE 403G
PRODUCT USES..... LUBRICANT.
FORMULA/LAB BOOK #..... F 23-071.

Section 02: COMPOSITION/INFORMATION INGREDIENTS

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route,Species	LC/50 Route,Species
HEPTANE	10-20	400 ppm	142-82-5	>15000 mg/kg ORAL-RAT	NOT AVAILABLE
LIGHT DISTILLATE HYDRO-TREATED	5-10	100 ppm	64742-47-8	>5 g/kg ORAL - RAT	NOT AVAILABLE
COPPER, ELEMENTAL	3 - 7	1 mg/m3	7440-50-8	NOT AVAILABLE	NOT APPLICABLE
GRAPHITE POWDER	3-7	2.5mg/m3	7782-42-5	NOT AVAILABLE	NOT AVAILABLE
HYDROTREATED LIGHT NAPHTHENIC DISTILLATE	1-5	5 mg/m3	64742-53-6	NOT AVAILABLE	NOT AVAILABLE
HYDROTREATED LIGHT AND HEAVY NAPHTHENIC DISTILLATE	1-5	5 mg/m3	64742-52-5	>5000mg/kg	RAT NOT AVAILABLE
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	1-5	5 mg/m3	64742-54-7	5 g/kg ORAL-RAT	NOT AVAILABLE
RESIDUAL OILS, PETROLEUM, HYDROTREATED	1-5	5 mg/m3	64742-57-0	NOT AVAILABLE	NOT AVAILABLE
RESIDUAL OILS, PETROLEUM, SOLVENT DEWAXED	1-5	5 mg/m3	64742-62-7	NOT AVAILABLE	NOT AVAILABLE
PARAFFINIC PETROLEUM DISTILLATE	1-5	5 MG/M3	64742-65-0	NOT AVAILABLE	NOT AVAILABLE
PARAFFINIC OIL	1-5	5 mg/m3	64741-88-4	NOT AVAILABLE	NOT AVAILABLE
SILICA QUARTZ	1-5	0.1 mg/m3	14808-60-7	NOT AVAILABLE	NOT AVAILABLE
ISOBUTANE	10 - 30	1000 ppm	75-28-5	NOT APPLICABLE	142,500 ppm (4h) INHAL - RAT
PROPANE	3-7	1000 ppm	74-98-6	>5000 mg/kg DERMAL-RABBITS	NOT AVAILABLE

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
INGESTION..... MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.
INHALATION..... INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE
ASPHYXIANT.
EYE CONTACT..... NO.
SKIN ABSORPTION..... NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE.
SKIN CONTACT..... NO.
EFFECTS OF ACUTE EXPOSURE..... DIZZINESS, NAUSEA. IRRITATION TO SKIN & EYES.
EFFECTS OF CHRONIC EXPOSURE..... SOLVENTS MAY CAUSE DEFATTING DERMATITIS

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Section 03: HAZARDS IDENTIFICATION

EXPOSURE LIMIT OF MATERIAL..... SEE SECTION 2.

Section 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURE IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPOUR OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED; DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.

Section 05: FIRE FIGHTING MEASURES

AUTO IGNITION TEMPERATURE (°C)..... 245.
 SPECIAL PROCEDURES..... WATER FROM FOGGING NOZZLES MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT BUILD-UP IF EXPOSED TO EXTREME TEMPERATURES. FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN IN A FIRE INVOLVING THIS MATERIAL.
 FLAMMABILITY..... EXTREMELY FLAMMABLE.
 IF YES, UNDER WHICH CONDITIONS?..... EXCESSIVE HEAT, SPARKS AND OPEN FLAME.
 EXTINGUISHING MEDIA..... WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.
 FLASH POINT (C), TAG CLOSED CUP..... LOWEST KNOWN VALUE IS HEPTANE @ -4C.
 UPPER FLAMMABLE LIMIT..... 9.6.
 (% BY VOLUME)
 LOWER FLAMMABLE LIMIT..... 0.7.
 (% BY VOLUME)
 EXPLOSION DATA
 SENSITIVITY TO STATIC DISCHARGE. NOT APPLICABLE.
 SENSITIVITY TO IMPACT..... NOT APPLICABLE.
 HAZARDOUS COMBUSTION PRODUCTS..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
 AEROSOL FLAME PROJECTION CLASSIFIED AS:..... >15cm BUT <100cm.
 FLASHBACK..... NONE.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL..... REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL, AND NON-SPARKING TOOLS. VENTILATE AREA. PREVENT FROM ENTERING A WATERCOURSE.

Section 07: HANDLING AND STORAGE

STORAGE NEEDS..... KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.
 ENGINEERING CONTROLS..... VENTILATION - LOCAL (MECHANICAL IF USED INDOORS ON A CONTINUOUS BASIS).
 HANDLING PROCEDURES AND EQUIPMENT STORE IN A COOL, WELL VENTILATED AREA NOT TO EXCEED 50 DEG C.
 SYNERGISTIC MATERIALS..... NONE KNOWN.

Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE..... WEAR CHEMICAL RESISTANT GLOVES.
 RESPIRATORY/TYPE..... IF USED INDOORS ON A CONTINUOUS BASIS, USE OF A CARTRIDGE TYPE RESPIRATOR (NIOSH/MSHATC 23C OR EQUIVALENT) IS RECOMMENDED.
 EYE/TYPE..... SAFETY GLASSES.
 FOOTWEAR/TYPE..... NOT NORMALLY REQUIRED.
 OTHER/TYPE..... NOT REQUIRED.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... AEROSOL.
 APPEARANCE..... COPPER.
 ODOR..... HYDROCARBON.
 ODOR THRESHOLD..... NOT AVAILABLE.
 VAPOUR PRESSURE(PSIG)-AEROSOL..... 50 - 60.
 @ 20 C
 BOILING POINT (°C)(CONC)..... 90-247.5.
 EVAPORATION RATE..... LESS THAN 1.
 n-BUTYL ACETATE = 1
 VAPOUR DENSITY (AIR=1)..... GREATER THAN 1.
 (BY WEIGHT)

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Section 09: PHYSICAL AND CHEMICAL PROPERTIES

(BY WEIGHT)
 SOLUBILITY IN WATER g/L (20°C)..... NEGLIGIBLE.
 pH..... NOT APPLICABLE.
 COEFFICIENT OF WATER/OIL DIST..... NOT AVAILABLE.
 FREEZING POINT: (°C)..... LESS THAN 0.

Section 10: STABILITY AND REACTIVITY

HAZARDOUS PRODUCTS OF DECOMPOSITION..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
 CHEMICAL STABILITY:
 YES..... UNDER NORMAL CONDITIONS.
 NO, WHICH CONDITIONS?..... NOT APPLICABLE.
 COMPATIBILITY WITH OTHER SUBSTANCES:
 NO, WHICH ONES?..... STRONG OXIDIZING AGENTS.
 REACTIVITY CONDITIONS?..... NOT APPLICABLE.
 HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

Section 11: TOXICOLOGICAL INFORMATION

REPRODUCTIVE EFFECTS..... N-HEXANE- EXCESS EXPOSURE CAN RESULT IN PERIPHERAL NEUROPATHIES. THE INITIAL SYMPTOMS ARE SYMMETRICAL SENSORY NUMBNESS AND PARESTHESIAS OF DISTAL PORTIONS OF THE EXTREMITIES. MOTOR WEAKNESS IS TYPICALLY OBSERVED IN MUSCLES OF THE TOES AND FINGERS BUT MAY ALSO INVOLVE MUSCLES OF THE ARMS, THIGHS AND FOREARMS. THE ONSET OF THESE SYMPTOMS MAY BE DELAYED FOR SEVERAL MONTHS TO A YEAR AFTER THE BEGINNING OF EXPOSURE. THE NEUROTOXIC PROPERTIES OF N-HEXANE ARE POTENTIATED BY EXPOSURE TO METHYL ETHYL KETONE AND METHYL ISOBUTYL KETONE. PROLONGED EXPOSURE TO HIGH CONCENTRATIONS OF N-HEXANE (>1,000 ppm) HAS RESULTED IN DECREASED SPERM COUNT AND DEGENERATIVE CHANGES IN THE TESTES OF RATS BUT NOT THOSE OF MICE.
 IRRITANCY OF MATERIAL..... SLIGHT.
 SENSITIZING CAPABILITY OF MATERIAL..... UNKNOWN.
 CARCINOGENICITY OF MATERIAL..... SILICA QUARTZ-CONTAINS CRYSTALLINE SILICON DIOXIDE DUST, WHICH IS LISTED BY IARC AS A CLASS 2A CARCINOGEN. DUST EXPOSURE IS UNLIKELY FROM THIS PRODUCT.
 TERATOGENICITY..... NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC EFFECTS ARE ANTICIPATED.
 MUTAGENICITY..... NO INFORMATION IS AVAILABLE AND NO ADVERSE MUTAGENIC EFFECTS ARE ANTICIPATED.

Section 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL..... NOT AVAILABLE.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL..... DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

Section 14: TRANSPORTATION INFORMATION

T.D.G. CLASSIFICATION..... CONSUMER COMMODITY (AEROSOLS, UN1950, CLASS 2.1).
 D.O.T. CLASSIFICATION..... CONSUMER COMMODITY, ORM-D.

Section 15: REGULATORY INFORMATION

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION..... A,B5,D2A,D2B.
 CNFC SECTION 3.3.5..... LEVEL 3.
 CEPA (Canadian Environmental Protection ... Act) ALL SUBSTANCES IN THIS PRODUCT ARE LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST (DSL) OR ARE NOT REQUIRED TO BE LISTED.

U.S. REGULATIONS:

HMIS RATING HEALTH..... 1 SLIGHT HAZARD.
 HMIS RATING FLAMMABILITY..... 4 SEVERE HAZARD.
 HMIS RATING REACTIVITY..... 0 MINIMAL HAZARD.
 HMIS RATING PERSONAL PROTECTION.. B.

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Section 15: REGULATORY INFORMATION

NFPA CODE 30B..... SARA 313 INFORMATION:..... CALIFORNIA PROPOSITION 65:..... TSCA (Toxic Substances Control Act)..... VOC (w/w%).....	LEVEL 3. 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: . CAS #: . *7440-50-8 CHEMICAL NAME: ELEMENTAL. *110-54-3 N-HEXANE COPPER, THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986: . WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. . CAS #: CHEMICAL NAME: *14808-60-7 CRYSTALLINE QUARTZ. ALL COMPONENT OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING. 66-67.
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Section 16: OTHER INFORMATION

NOTICE FROM K-G SPRAY- PAK INC PREPARED BY..... PREPARATION DATE	THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET IS PROVIDED BY K-G SPRAY PAK INC. FREE OF CHARGE. WHILE BELIEVED TO BE RELIABLE, IT IS INTENDED FOR USE BY SKILLED PERSONS AT THEIR OWN RISK. K-G SPRAY PAK INC. ASSUMES NO RESPONSIBILITY FOR EVENTS RESULTING OR DAMAGES INCURRED FROM ITS USE. THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN AND DOES NOT RELATE TO USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PROCESS. Regulatory Affairs May23/13
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