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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
 (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)

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

CHEMICAL FAMILY..... HYDROCARBONS.

MOLECULAR WEIGHT..... NOT APPLICABLE.

CHEMICAL FORMULA..... MIXTURE.

TRADE NAMES & SYNONYMS

RECOMMENDED PRODUCT USES..... LUBRICANT.

FORMULA/LAB BOOK #..... F 23-071.

Section 02: HAZARDS IDENTIFICATION



HAZARD CLASSIFICATION..... NOT ASSESSED.

SIGNAL WORD..... NOT ASSESSED.

HAZARD STATEMENTS NOT ASSESSED.

PRECAUTIONARY STATEMENTS..... NOT ASSESSED.

OTHER HAZARDS..... NOT ASSESSED.

Section 03: COMPOSITION/INFORMATION INGREDIENTS

Hazardous Ingredients	CAS #	Wt. %
COPPER, ELEMENTAL	7440-50-8	3 - 7
GRAPHITE POWDER	7782-42-5	3-7
HEPTANE	142-82-5	10-20
HYDROTREATED LIGHT NAPHTHENIC DISTILLATE	64742-53-6	1-5
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	1-5
ISOBUTANE	75-28-5	10 - 30
PARAFFINIC OIL	64741-88-4	1-5
PARAFFINIC PETROLEUM DISTILLATE	64742-65-0	1-5
PROPANE	74-98-6	3-7
RESIDUAL OILS, PETROLEUM, HYDROTREATED	64742-57-0	1-5
RESIDUAL OILS, PETROLEUM, SOLVENT DEWAXED	64742-62-7	1-5
SILICA QUARTZ	14808-60-7	1-5
HYDROTREATED LIGHT AND HEAVY NAPHTHENIC DISTILLATE	64742-52-5/64742-53-6	1-5
LIGHT DISTILLATE HYDRO-TREATED	64742-47-8	5-10

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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

FLAMMABILITY..... EXTREMELY FLAMMABLE.
 IF YES, UNDER WHICH CONDITIONS?..... EXCESSIVE HEAT, SPARKS AND OPEN FLAME.
 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.

EXPLOSION DATA
 SENSITIVITY TO STATIC DISCHARGE. NOT APPLICABLE.
 SENSITIVITY TO IMPACT..... NOT APPLICABLE.

EXTINGUISHING MEDIA..... WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.

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

Ingredients	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
COPPER, ELEMENTAL	1 mg/m3					
GRAPHITE POWDER	2.5mg/m3					
HEPTANE	400 ppm					
HYDROTREATED LIGHT NAPHTHENIC DISTILLATE	5 mg/m3					
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	5 mg/m3					
ISOBUTANE	1000 ppm					
PARAFFINIC OIL	5 mg/m3					
PARAFFINIC PETROLEUM DISTILLATE	5 MG/M3					
PROPANE	1000 ppm					
RESIDUAL OILS, PETROLEUM, HYDROTREATED	5 mg/m3					
RESIDUAL OILS, PETROLEUM, SOLVENT DEWAXED	5 mg/m3					

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Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
SILICA QUARTZ	0.1 mg/m3					
HYDROTREATED LIGHT AND HEAVY NAPHTHENIC DISTILLATE	5 mg/m3					
LIGHT DISTILLATE HYDRO-TREATED	100 ppm					
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.					
EXPOSURE LIMIT OF MATERIAL.....	SEE SECTION 2.					

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE.....	AEROSOL.
APPEARANCE.....	COPPER.
ODOR.....	HYDROCARBON.
ODOR THRESHOLD.....	NOT AVAILABLE.
pH.....	NOT APPLICABLE.
FREEZING POINT: (°C).....	LESS THAN 0.
BOILING POINT (°C)(CONC).....	90-247.5.
FLASH POINT (C), TAG CLOSED CUP.....	LOWEST KNOWN VALUE IS HEPTANE @ -4C.
EVAPORATION RATE.....	LESS THAN 1.
n-BUTYL ACETATE = 1	
UPPER FLAMMABLE LIMIT.....	9.6.
(% BY VOLUME)	
LOWER FLAMMABLE LIMIT.....	0.7.
(% BY VOLUME)	
VAPOUR PRESSURE(PSIG)-AEROSOL.....	50 - 60.
@ 20 C	
VAPOUR DENSITY (AIR=1).....	GREATER THAN 1.
(BY WEIGHT)	
SOLUBILITY IN WATER g/L (20°C).....	NEGLECTIBLE.
COEFFICIENT OF WATER/OIL DIST.....	NOT AVAILABLE.
AUTO IGNITION TEMPERATURE (°C).....	245.

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

Ingredients	LC50	LD50
COPPER, ELEMENTAL	NOT APPLICABLE	NOT AVAILABLE
GRAPHITE POWDER	NOT AVAILABLE	NOT AVAILABLE
HEPTANE	NOT AVAILABLE	>15000 mg/kg ORAL-RAT
HYDROTREATED LIGHT NAPHTHENIC DISTILLATE	NOT AVAILABLE	NOT AVAILABLE
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	NOT AVAILABLE	5 g/kg ORAL-RAT

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Section 11: TOXICOLOGICAL INFORMATION

Ingredients	LC50	LD50
ISOBUTANE	142,500 ppm (4h) INHAL - RAT	NOT APPLICABLE
PARAFFINIC OIL	NOT AVAILABLE	NOT AVAILABLE
PARAFFINIC PETROLEUM DISTILLATE	NOT AVAILABLE	NOT AVAILABLE
PROPANE	NOT AVAILABLE	>5000 mg/kg DERMAL-RABBITS
RESIDUAL OILS, PETROLEUM, HYDROTREATED	NOT AVAILABLE	NOT AVAILABLE
RESIDUAL OILS, PETROLEUM, SOLVENT DEWAXED	NOT AVAILABLE	NOT AVAILABLE
SILICA QUARTZ	NOT AVAILABLE	NOT AVAILABLE
HYDROTREATED LIGHT AND HEAVY NAPHTHENIC DISTILLATE	NOT AVAILABLE	>5000mg/kg RAT
LIGHT DISTILLATE HYDRO-TREATED	NOT AVAILABLE	>5 g/kg ORAL - RAT
ROUTE OF ENTRY:		
INHALATION.....	INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE ASPHYXANT.	
INGESTION.....	MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.	
EYE CONTACT.....	NO.	
SKIN CONTACT.....	NO.	
SKIN ABSORPTION.....	NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE.	
EFFECTS OF ACUTE EXPOSURE.....	DIZZINESS, NAUSEA. IRRITATION TO SKIN & EYES.	
EFFECTS OF CHRONIC EXPOSURE.....	SOLVENTS MAY CAUSE DEFATTING DERMATITIS	
IRRITANCY OF MATERIAL.....	SLIGHT.	
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.	
MUTAGENICITY.....	NO INFORMATION IS AVAILABLE AND NO ADVERSE MUTAGENIC EFFECTS ARE ANTICIPATED.	
TERATOGENICITY.....	NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC EFFECTS ARE ANTICIPATED.	
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.	
SENSITIZING CAPABILITY OF MATERIAL.....	UNKNOWN.	

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.

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Section 15: REGULATORY INFORMATION

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.
 NFPA CODE 30B..... LEVEL 3.
 SARA 313 INFORMATION:.....

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 #:	CHEMICAL NAME:
ELEMENTAL. *110-54-3	*7440-50-8	COPPER,
		N-HEXANE

CALIFORNIA PROPOSITION 65:..... 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:
QUARTZ.	*14808-60-7	CRYSTALLINE

TSCA (Toxic Substances Control Act)..... ALL COMPONENT OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING.

VOC (w/w%)..... 66-67.

Section 16: OTHER INFORMATION

NOTICE FROM K-G SPRAY- PAK INC 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.

PREPARED BY..... Regulatory Affairs
 PREPARATION DATE Jan21/14