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**MATERIAL SAFETY DATA SHEET**

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

**PRODUCT: 1808-11-002 CAR A/C PRODUCT 170G**

**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..... 1808-11-002 CAR A/C PRODUCT 170G  
 MOLECULAR WEIGHT..... NOT APPLICABLE.  
 CHEMICAL FORMULA..... MIXTURE.  
 TRADE NAMES & SYNONYMS  
 RECOMMENDED PRODUCT USES..... REFRIGERANT.  
 FORMULA/LAB BOOK #

**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. %
ISOBUTANE	75-28-5	40-70
PROPANE	74-98-6	30-60

**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 APPARTATUS 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:..... >45cm.  
 FLASHBACK..... NONE.

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**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
ISOBUTANE	1000 ppm					
PROPANE	1000 ppm					
GLOVES/ TYPE.....	NOT NORMALLY REQUIRED.					
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..... CLEAR PALE YELLOW LIQUID.  
 ODOR..... HYDROCARBON.  
 ODOR THRESHOLD..... NOT AVAILABLE.  
 pH..... NOT APPLICABLE.  
 FREEZING POINT: (°C)..... -20.  
 BOILING POINT (°C)(CONC)..... NOT AVAILABLE.  
 FLASH POINT (C), TAG CLOSED CUP..... -40F BASED ON PROPANE/ISOBUTANE.  
 EVAPORATION RATE..... LESS THAN 1.  
 n-BUTYL ACETATE = 1  
 UPPER FLAMMABLE LIMIT..... 9.6.  
 (% BY VOLUME)  
 LOWER FLAMMABLE LIMIT..... 2.6.  
 (% BY VOLUME)  
 VAPOUR PRESSURE(PSIG)-AEROSOL..... 65-70.  
 @ 20 C  
 VAPOUR DENSITY (AIR=1)..... GREATER THAN 1.  
 (BY WEIGHT)  
 SPECIFIC GRAVITY (LIQUID)..... 0.83-0.85.  
 SOLUBILITY IN WATER g/L (20°C)..... NEGLIGIBLE.  
 COEFFICIENT OF WATER/OIL DIST..... NOT AVAILABLE.  
 AEROSOL PERCENT VOLATILE..... 99-100.  
 (BY WEIGHT).

**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.

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## Section 11: TOXICOLOGICAL INFORMATION

Ingredients	LC50	LD50
ISOBUTANE	142,500 ppm (4h) INHAL - RAT	NOT APPLICABLE
PROPANE	NOT AVAILABLE	>5000 mg/kg DERMAL-RABBITS
ROUTE OF ENTRY:		
INHALATION.....	PROPELLANT IS A SIMPLE ASPHYXIANT.	
INGESTION.....	MAY CAUSE HEADACHE, NAUSEA, VOMITING, DIARRHEA AND WEAKNESS.	
EYE CONTACT.....	CONTACT MAY CAUSE SLIGHT IRRITATION, REDNESS, WATERING.	
SKIN CONTACT.....	MAY CAUSE IRRITATION.	
SKIN ABSORPTION.....	NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE.	
EFFECTS OF ACUTE EXPOSURE.....	DIZZINESS, NAUSEA. IRRITATION TO EYES.	
EFFECTS OF CHRONIC EXPOSURE.....	MAY CAUSE DEFATTING DERMATITIS.	
IRRITANCY OF MATERIAL.....	SKIN/EYE IRRITANT.	
CARCINOGENICITY OF MATERIAL.....	THE INGREDIENTS OF THIS PRODUCT ARE NOT LISTED AS CARCINOGENS BY NTP, (NATIONAL TOXICOLOGY PROGRAM), NOT REGULATED AS CARCINOGENS BY OSHA, (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), AND HAVE NOT BEEN EVALUATED BY IARC, (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER), NOR BY ACGIH (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS).	
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.....	NO INFORMATION IS AVAILABLE AND NO ADVERSE REPRODUCTIVE EFFECTS ARE ANTICIPATED.	
SENSITIZING CAPABILITY OF MATERIAL.....	UNKNOWN.	

## Section 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL.....	ENVIRONMENTAL FATE: DUE TO ITS FLUID NATURE AND SPECIFIC GRAVITY, THIS PRODUCT WILL FLOAT OR SPREAD ACROSS WATER MAKING IT A NUISANCE CONTAMINANT. IT IS NOT THOUGHT TO BE TOXIC TO MARINE OR LAND ORGANISMS.
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## 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.
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## 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.
CNFC SECTION 3.3.5.....	LEVEL 3.
CEPA (Canadian Environmental Protection Act)	

## 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 NO INGREDIENTS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372.

CAS #: . CHEMICAL

CALIFORNIA PROPOSITION 65..... NAME: . N/A.  
THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986:  
WARNING: THIS PRODUCT DOES NOT INTENTIONALLY

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**Section 15: REGULATORY INFORMATION**

CALIFORNIA PROPOSITION 65:..... CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE  
 CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.  
 . CAS #: CHEMICAL NAME:

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

VOC (w/w%)..... 99-100.

**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