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: 1808-15-007/25 02-020 GLASS CLEANER 539G

Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

K-G SPRAY-PAK INC. MANUFACTURER

8001 KEELE STREET P.O. BOX 89

ONTARIO CANADA L4K 1Y8

CANUTEC EMERGENCY #:1-613-996-6666(24HR)

1808-15-007/25 02-020 GLASS CLEANER 539G

PRODUCT NAME.....CHEMICAL FAMILY.... DETERGENT. MOLECULAR WEIGHT...... NOT APPLICABLE. CHEMICAL FORMULA...... NOT APPLICABLE.

TRADE NAMES & SYNONYMS

RECOMMENDED PRODUCT USES...... CLEANER. FORMULA/LAB BOOK #..... F 15-039C.

Section 02: HAZARDS IDENTIFICATION





HAZARD CLASSIFICATIONSIGNAL WORD	NOT ASSESSED. NOT ASSESSED.
	NOT ASSESSED.
HAZARD STATEMENTS	
PRECAUTIONARY STATEMENTS	NOT ASSESSED.
OTHER HAZARDS	NOT ASSESSED.

Section 03: COMPOSITION/INFORMATION INGREDIENTS			
Hazardous Ingredients	CAS#	Wt. %	
ETHANOL (Ethyl Alcohol)	64-17-5	1-5	
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1-5	
ISOBUTANE	75-28- 5	1-5	
PROPANE	74-98-6	0.1-1.0	

Section 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURE

SPECIAL PROCEDURES.....

IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN OR EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES; FOR EYES, GET MEDICAL ATTENTION. IN CASE OF INGESTION, DO NOT INDUCE VOMITING. CALL A PHYSICIAN OR POISON CONTROL CENTRE IMMEDIATELY AND HAVE NAMES OF INGREDIENTS AVAILABLE.

Section 05: FIRE FIGHTING MEASURES

NOT A FLAMMABLE PRODUCT (AS PER CANADIAN AEROSOL REGULATIONS). FLAMMABILITY.....IF YES, UNDER WHICH CONDITIONS?..... EXCESSIVE HEAT, SPARKS AND OPEN FLAME.

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

NOT APPLICABLE.

EXTINGUISHING MEDIA.....

WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM. HAZARDOUS COMBUSTION

HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION PRODUCTS.....

IS INCOMPLETE.

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Section 05: FIRE FIGHTING MEASURES

AEROSOL FLAME PROJECTION

CLASSIFIED AS:..... 0 cm.

Section 06: ACCIDENTAL RELEASE MEASURES

REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL, AND LEAK/SPILL.....

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.

VENTILATION - LOCAL (MECHANICAL IF USED INDOORS ON A CONTINUOUS ENGINEERING CONTROLS.....

BASIS).

STORÉ IN A COOL, WELL VENTILATED AREA NOT TO EXCEED 50 DEG C. HANDLING PROCEDURES AND

EQUIPMENT

SYNERGISTIC MATERIALS..... NONE KNOWN.

Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

	ACGIH TLV	OSHA PEL	NIOSH
Ingredients	TWA STEL	PEL STEL	REL

ETHANOL (Ethyl Alcohol) 1000 ppm

ETHYLENE GLYCOL 25 ppm

MONOBUTYL ETHER

ISOBUTANE

1000 ppm

PROPANE

1000 ppm

RESPIRATOR (NIOSH/MSHATC 23C OR EQUIVALENT) IS RECOMMENDED. SAFETY GLASSES.

EYE/TYPE.....

FOOTWEAR/TYPE..... NOT NORMALLY REQUIRED. NOT REQUIRED.

OTHER/TYPE..... EXPOSURE LIMIT OF MATERIAL..... SEE SECTION 2.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE...... AEROSOL APPEARANCE...... CLEAR LIQUID. ODOR.....FRAGRANT. ODOR THRESHOLD...... NOT AVAILABLE. 10.75-11.0. n-BUTYL ACETATE = 1 UPPER FLAMMABLE LIMIT...... 19. (% BY VOLUME) LOWER FLAMMABLE LIMIT...... 1.1. (% BY VOLUME) VAPOUR PRESSURE(PSIG)-AEROSOL..... 30 - 40. @ 20 C VAPOUR DENSITY (AIR=1)...... GREATER THAN 1. (BY WEIGHT) (BY WEIGHT).

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Section 10: STABILITY AND REACTIVITY

HAZARDOUS PRODUCTS OF

DECOMPOSITION..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION

IS INCOMPLETE.

CHEMICAL STABILITY:

..... UNDER NORMAL CONDITIONS.

COMPATIBILITY WITH OTHER

SUBSTANCES:

NO. WHICH ONES?...

REACTIVITY CONDITIONS?...... NOT APPLICABLE. HAZARDOUS POLYMERIZATION...... WILL NOT OCCUR.

..... STRONG OXIDIZING AGENTS.

Section 11: TOXICOLOGICAL INFORMATION

Ingredients	LC50	LD50	
ETHANOL (Ethyl Alcohol)	31,623 ppm (4 hr) INHAL - RAT	7060 mg/kg ORAL - RAT	
ETHYLENE GLYCOL MONOBUTYL ETHER	450 ppm (4 hr) INHAL - RAT	530 - 2616 mg/kg ORAL - RAT	
ISOBUTANE	142,500 ppm (4h) INHAL - RAT	NOT APPLICABLE	
PROPANE	NOT AVAILABLE	>5000 mg/kg DERMAL-RABBITS	
	INHALATION OF SOLVENTS MAY CAUS ASPHYXIANT.		
	ETHYLENE GLYCOL MONOBUTYL ETH HEMOLYSIS AND POSSIBLE LIVER AN	D KIDNEY DAMAGE. MAY CAUSE HEADACHE.	
EYE CONTACT	ETHYLENE GLYCOL MONOBUTYL ETH POSSIBLE CORNEAL INJURY.	NAUSEA, VOMITING AND WEAKNESS ETHYLENE GLYCOL MONOBUTYL ETHER CAUSES MODERATE IRRITATION AND POSSIBLE CORNEAL INJURY	
SKIN CONTACTSKIN ABSORPTION	MAY CAUSE IRRITATION ETHYLENE GLYCOL MONOBUTYL ETH OR WIDE SPREAD CONTACT MAY RES	HER PENETRATES SKIN READILY. FREQUENT SULT IN THE ABSORPTION OF POTENTIALLY MPTOMS OF TOXICITY ARE SIMILAR TO	
EFFECTS OF ACUTE EXPOSURE EFFECTS OF CHRONIC EXPOSURE	THOSE OF SWALLOWING DIZZINESS, NAUSEA. IRRITATION TO SETHYLENE GLYCOL MONOBUTYL ETH BLOOD CELLS LEADING TO POSSIBLE . SOLVENTS MAY CAUSE DEFA	ELIVER AND KIDNEY DAMAGE.	
IRRITANCY OF MATERIALCARCINOGENICITY OF MATERIAL	THE INGREDIENTS OF THIS PRODUCT NTP, (NATIONAL TOXICOLOGY PROGI BY OSHA, (OCCUPATIONAL SAFETY A NOT BEEN EVALUATED BY IARC,(INTE CANCER), NOR BY ACGIH (AMERICAN	FARE NOT LISTED AS CARCINOGENS BY RAM), NOT REGULATED AS CARCINOGENS IND HEALTH ADMINISTRATION), AND HAVE RESEARCH ON CONFERENCE OF GOVERNMENTAL	
MUTAGENICITY	NO INFORMATION IS AVAILABLE AND ANTICIPATED.	NO ADVERSE MUTAGENIC EFFECTS ARE	
TERATOGENICITY	NO INFORMATION IS AVAILABLE AND ANTICIPATED.	NO ADVERSE TERATOGENIC EFFECTS ARE	
REPRODUCTIVE EFFECTS	NO INFORMATION IS AVAILABLE AND ANTICIPATED.	NO ADVERSE REPRODUCTIVE EFFECTS ARE	
SENSITIZING CAPABILITY OF MATE			
Section 12: ECOLOGICAL CONSIDERATIONS			

ENVIRONMENTAL...... NOT AVAILABLE.

Section 13: DISPOSAL CONSIDERATIONS

Section 14: TRANSPORTATION INFORMATION

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Section 15: REGULATORY INFORMATION

CANADIAN	REGIII	ATIONS:
CANADIAN	REGUL	AHONO.

WHMIS CLASSIFICATION...... A,D1A,D2B. LEVEL 1. CNFC SECTION 3.3.5.....

CEPA (Canadian Enviromental 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...... 2 MODERATE HAZARD. 1 SLIGHT HAZARD. HMIS RATING FLAMMABILITY.....

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

LEVEL 1. 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:

CHEMICAL NAME: . CAS #:

*111-76-2

ETHYLENE GLYCOL

CALIFORNIA PROPOSITION 65:....

MONOBUTYL ETHER 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 CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE

CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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.

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

Jan21/14 PREPARATION DATE