

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

PRODUCT: 0931-23-001U ONE SHOT

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..... 0931-23-001U ONE SHOT
CHEMICAL FAMILY..... HALOGENATED HYDROCARBONS.
MOLECULAR WEIGHT..... NOT APPLICABLE.
CHEMICAL FORMULA..... NOT APPLICABLE.
TRADE NAMES & SYNONYMS
RECOMMENDED PRODUCT USES..... DEGREASER/CLEANER.
FORMULA/LAB BOOK #..... FORM-9910-2-251.

SECTION 02: HAZARDS IDENTIFICATION



HAZARD CLASSIFICATION..... CAUTION.
SIGNAL WORD..... CAUTION.
HAZARD STATEMENTS H229 PRESSURIZED CONTAINER: MAY BURST IF HEATED. H302 HARMFUL IF SWALLOWED. H315+H320 CAUSES SKIN AND EYE IRRITATION.
PRECAUTIONARY STATEMENTS..... P101 IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND. P102 KEEP OUT OF REACH OF CHILDREN. P103 READ LABEL BEFORE USE.
OTHER HAZARDS..... No additional information available.

SECTION 03: COMPOSITION/INFORMATION INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
1,1,1,2-TETRAFLUOROETHANE	811-97-2	60-100
ACETONE	67-64-1	1-5

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..... NOT A FLAMMABLE PRODUCT (AS PER CANADIAN AEROSOL REGULATIONS).
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

PRODUCT: 0931-23-001U ONE SHOT**SECTION 05: FIRE FIGHTING MEASURES**

PRODUCTS..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
 AEROSOL FLAME PROJECTION
 CLASSIFIED AS:..... 0 cm.
 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
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1,1,1,2-TETRAFLUOROETHANE 1000 ppm

ACETONE 750 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.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... AEROSOL.
 APPEARANCE..... COLOURLESS.
 ODOR..... ETHEREAL.
 ODOR THRESHOLD..... NOT AVAILABLE.
 pH..... NOT APPLICABLE.
 FREEZING POINT: (°C)..... -117.
 BOILING POINT (°C)(CONC)..... 57.
 FLASH POINT(°C),TAG CLOSED-CUP LOWEST KNOWN VALUE IS ACETONE @-18C.
 (CONCENTRATE)
 EVAPORATION RATE..... NOT AVAILABLE.
 n-BUTYL ACETATE = 1
 UPPER FLAMMABLE LIMIT..... 12.8.
 (% BY VOLUME)
 LOWER FLAMMABLE LIMIT..... 1.
 (% BY VOLUME)
 VAPOUR PRESSURE(PSIG)-AEROSOL..... 65-75.
 @ 20 C
 VAPOUR DENSITY (AIR=1)..... GREATER THAN 1.
 (BY WEIGHT)
 SPECIFIC GRAVITY (LIQUID)..... NOT AVAILABLE.
 SOLUBILITY IN WATER g/L (20°C)..... 0.15.
 COEFFICIENT OF WATER/OIL DIST..... NOT AVAILABLE.
 AUTO IGNITION TEMPERATURE (°C)..... 465.
 AEROSOL PERCENT VOLATILE..... 100.
 (BY WEIGHT).

PRODUCT: 0931-23-001U ONE SHOT**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
1,1,1,2-TETRAFLUOROETHANE	567000 ppm (4hr) INHAL - RAT	NOT AVAILABLE
ACETONE	>16,000 ppm (4 hr) INHAL - RAT	>9750 mg/kg ORAL - RAT
ROUTE OF ENTRY: INHALATION..... INGESTION.....	PROPELLANT IS A SIMPLE ASPHYXIAN. PRODUCT IS A GAS. THEREFORE, INGESTION IS NOT A LIKELY ROUTE OF EXPOSURE.	
EYE CONTACT..... SKIN CONTACT..... SKIN ABSORPTION.....	MAY CAUSE IRRITATION. MAY CAUSE IRRITATION. MAY CAUSE FROSTBITE. NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE.	
EFFECTS OF ACUTE EXPOSURE..... EFFECTS OF CHRONIC EXPOSURE..... IRRITANCY OF MATERIAL.....	DIZZINESS, NAUSEA. IRRITATION TO SKIN & EYES. NONE KNOWN. 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..... 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 2.2).
 D.O.T. CLASSIFICATION..... CONSUMER COMMODITY, ORM-D.

SECTION 15: REGULATORY INFORMATION

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION..... A,D2B.
 CNFC SECTION 3.3.5..... LEVEL 1.
 CEPA (Canadian Environmental Protection Act) 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.

