

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

Sid Harvey item #s 93220 & 93221 SDS # Z0483

**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.....	DIZZINESS, NAUSEA. IRRITATION TO SKIN & EYES. NONE KNOWN.	
IRRITANCY OF MATERIAL..... CARCINOGENICITY OF MATERIAL.....	SKIN/EYE IRRITANT. 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.

**PRODUCT: 0931-23-001U ONE SHOT****SECTION 15: REGULATORY INFORMATION**

HMIS RATING FLAMMABILITY..... 0 MINIMAL HAZARD.  
 HMIS RATING REACTIVITY..... 1 SLIGHT HAZARD.  
 HMIS RATING PERSONAL PROTECTION.. B.  
 NFPA CODE 30B..... LEVEL 1.  
 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 NAME:  
 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 DOES NOT INTENTIONALLY CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.  
 . CAS #: CHEMICAL NAME:  
 . N/A.  
 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%)..... 0.

**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 ..... MAR 13/2015

INFORMATION DELIVERY

**MATERIAL SAFETY DATA SHEET**      name of product: **ONE SHOT DRAIN OPENER  
7oz FILLING  
(DRAIN CLEANER 134)**

SECTION I- HAZARDOUS INGREDIENTS					
Chemical Identity	Concentration	CAS Number	HM Number	1.180	1.130
<b>Liquified Propellant R 134</b>					
SECTION II- PREPARATION INFORMATION					
Prepared by (Group, Department, Etc.) <b>W. Rissler</b>			Phone Number	Date of Preparation <b>09-01-2010</b>	
SECTION III- PRODUCT INFORMATION					
Product Identifier <b>Drain Cleaner 134/</b>				<b>EXPIRES: 09-01-2013</b>	
Manufacturer's Name <b>Hago-Chemotechnik</b>			Supplier's Name		
Street Address <b>Bodenseestr. 217</b>			Street Address		
City <b>DB00-Munich</b>	Province <b>Germany</b>	City	Province		
Postal Code	Emergency Tel. No. <b>49-89 8710524</b>	Postal Code	Emergency Tel. No.		
Product Use					
SECTION IV- PHYSICAL DATA					
Physical State <b>Pressurized propellant</b>	Odour and Appearance <b>odourless and colourless</b>			Odour Threshold	
Specific Gravity (water = 1)	Co-efficient of Water/Oil Distribution			Vapour Pressure <b>84 psi (68°F)</b>	
Boiling Point (°C) <b>- 26,5</b>	Freezing Point (°C)	pH	Vapour Density (Air = 1) <b>28</b>		
Evaporation Rate (DuAc = 1) <b>&lt; 1</b>	Per cent Volatile (by volume)			<b>100</b>	

**MATERIAL SAFETY DATA SHEET**

name of product: **ONE SHOT DRAIN OPENER  
7oz FILLING  
(DRAIN CLEANER 134)**

<b>SECTION V. FIRE EXPLOSION HAZARD</b>		
Conditions of Flammability <b>When cans subjected to extreme heat. Pressurized gas and vapours of solvents may cause explosive mixtures with air.</b>		
Means of Exinction <b>Foam, CO2, WATER</b> <b>Water spray may be used to keep containers cool.</b>		
Explosion Data Sensitivity to Mechanical Impact <b>no</b>		Sensitivity to Static Discharge <b>no</b>
Flashpoint(°C) and Method <b>none</b>	Upper Flammable Limit % <b>n.a.</b>	Lower Flammable Limit % <b>n.a.</b>
Autoignition Temperature (°C) <b>none</b>	Hazardous Combustion Products <b>none</b>	
<b>SECTION VI. REACTIVITY DATA</b>		
Stability <b>stable</b>		
Incompatible Materials <b>Do not use together with alkaline or acid chemicals.</b>		
Conditions of Reactivity <b>Not Reactive</b>		
Hazardous Decomposition Products <b>In cases of burning HF may be emitted.</b>		
<b>SECTION VII. TOXICOLOGICAL PROPERTIES</b>		
Route of Entry <input type="checkbox"/> Skin Contact <input type="checkbox"/> Skin Absorption <input type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Ingestion		
Effects of Acute Exposure to Product <b>Nausea and difficulty in breathing.</b>		
Effects of Chronic Exposure to Product		
Exposure Limits <b>1000 ppm</b>	Irritancy to Product <b>none</b>	Synergistic Products <b>none</b>
Evidence of Carcinogenicity, Reproductive Toxicity, Teratogenicity or Mutagenicity? <b>none</b>		Sensitivity to Product <b>none</b>

**MATERIAL SAFETY DATA SHEET**

name of product: **ONE SHOT DRAIN OPENER  
7oz filling  
(DRAIN CLEANER 134)**

<b>SECTION VIII- PREVENTATIVE MEASURES</b>	
Personal Protective Equipment <b>none</b>	
Gloves (specify) <b>no</b>	Respiratory (specify) <b>use with adequate ventilation</b>
Eye (specify) <b>no</b>	Footwear (specify) <b>no</b>
Other Equipment (specify) <b>Use with adequate Ventilation.</b>	
Engineering Controls (e.g. ventilation, enclosed process, specify) <b>Use with adequate Ventilation.</b>	
Leak and Spill Procedure <b>Avoid open flames, ventilate area well.</b>	
Waste Disposal <b>Dispose empty cans in accordance with local, federal regulations.</b>	
Handling Procedures and Equipment <b>Keep out of reach from children.</b>	
Storage Requirements <b>Store below 122°F = 50°C</b>	
Special Shipping Information <b>Ship in accordance with TD 6 regulations.</b>	
<b>SECTION IX- FIRST AID MEASURES</b>	
Inhalation	<b>Remove to fresh air, give oxygen if necessary.</b>
Ingestion	<b>Do not initiate vomiting, call a physician immediately</b>
Eye Contact	<b>Flush affected areas with plenty of water, call a physician.</b>
Skin Contact	<b>Flush affected areas with water.</b>
Additional Information	Source Used
<b>Avoid contact with skin or eyes. Contact may cause freezing!</b>	