

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

**PRODUCT: 07302-0001 BUGKILL 400G****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..... 07302-0001 BUGKILL 400G  
CHEMICAL FAMILY..... PYRETHRINS/PIPERONYL BUTOXIDE.  
MOLECULAR WEIGHT..... NOT APPLICABLE.  
CHEMICAL FORMULA..... NOT APPLICABLE.  
TRADE NAMES & SYNONYMS..... 07302-0001 BUGKILL 400G  
PRODUCT USES..... INSECTICIDE.  
FORMULA/LAB BOOK #..... 99-41301 .

**Section 02: COMPOSITION/INFORMATION INGREDIENTS**

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route, Species	LC/50 Route, Species
HYDROTREATED MIDDLE PETROLEUM DISTILLATE	40-70	N/A	64742-47-8	NOT CONTROLLED BY WHMIS	NOT CONTROLLED BY WHMIS
PYRETHRINS	0.500	5 mg/m3	8003-34-7	1680 mg/kg ORAL - RAT	NOT AVAILABLE
PIPERONYL BUTOXIDE	0.500	NOT AVAILABLE	51-03-6	4.6 g/kg ORAL-RAT	>5.9 mg/l
ISOBUTANE	10-30	1000 ppm	75-28-5	NOT APPLICABLE	142,500 ppm (4h) INHAL - RAT
PROPANE	3-7	1000 ppm	74-98-6	>5000 mg/kg DERMAL-RABBITS	NOT AVAILABLE

**Section 03: HAZARDS IDENTIFICATION**

ROUTE OF ENTRY:  
INGESTION..... MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.  
INHALATION..... INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE  
ASPHYXIANT.  
EYE CONTACT..... MAY CAUSE IRRITATION.  
SKIN ABSORPTION..... NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE.  
SKIN CONTACT..... MAY CAUSE IRRITATION.  
EFFECTS OF ACUTE EXPOSURE..... DIZZINESS, NAUSEA. IRRITATION TO SKIN & EYES.  
EFFECTS OF CHRONIC EXPOSURE..... SOLVENTS MAY CAUSE DEFATTING DERMATITIS

EXPOSURE LIMIT OF MATERIAL..... SEE SECTION 2.

**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**

AUTO IGNITION TEMPERATURE (°C)..... NOT AVAILABLE.  
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.

FLAMMABILITY..... EXTREMELY FLAMMABLE.  
IF YES, UNDER WHICH CONDITIONS?..... EXCESSIVE HEAT, SPARKS AND OPEN FLAME.  
EXTINGUISHING MEDIA..... WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.  
UPPER FLAMMABLE LIMIT..... 8.8.  
(% BY VOLUME)  
LOWER FLAMMABLE LIMIT..... 1.3.  
(% BY VOLUME)  
EXPLOSION DATA  
SENSITIVITY TO STATIC DISCHARGE.. NOT APPLICABLE.  
SENSITIVITY TO IMPACT..... NOT APPLICABLE.

**PRODUCT: 07302-0001 BUGKILL 400G****Section 05: FIRE FIGHTING MEASURES**

HAZARDOUS COMBUSTION PRODUCTS..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.

AEROSOL FLAME PROJECTION CLASSIFIED AS:..... >45cm.

FLASHBACK..... NOT AVAILABLE.

FLASH POINT(°C),TAG CLOSED-CUP ..... LOWEST KNOWN VALUE IS ISOPARAFFINIC HYDROCARBON @ 77C.  
(CONCENTRATE)

**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**

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..... LIGHT AMBER.

ODOR..... PYRETHRIN.

ODOR THRESHOLD..... NOT AVAILABLE.

VAPOUR PRESSURE(PSIG)-AEROSOL..... 45-55.  
@ 20 C

BOILING POINT (°C)(CONC)..... 205-255.

EVAPORATION RATE..... LESS THAN 1.

n-BUTYL ACETATE = 1

VAPOUR DENSITY (AIR=1)..... GREATER THAN 1.  
(BY WEIGHT)

SOLUBILITY IN WATER g/L (20°C)..... NEGLIGIBLE.

pH..... NOT APPLICABLE.

SPECIFIC GRAVITY (LIQUID)..... 0.75-0.79.

COEFFICIENT OF WATER/OIL DIST..... NOT AVAILABLE.

FREEZING POINT: (°C)..... NOT AVAILABLE.

AEROSOL PERCENT VOLATILE..... 94-95.  
(BY WEIGHT).

SPECIFIC GRAVITY (AEROSOL)..... 0.68-0.72.

**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.

**PRODUCT: 07302-0001 BUGKILL 400G****Section 11: TOXICOLOGICAL INFORMATION**

REPRODUCTIVE EFFECTS..... NO INFORMATION IS AVAILABLE AND NO ADVERSE REPRODUCTIVE EFFECTS ARE ANTICIPATED.

IRRITANCY OF MATERIAL..... SLIGHT.

SENSITIZING CAPABILITY OF MATERIAL..... UNKNOWN.

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).

TERATOGENICITY..... NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC EFFECTS ARE ANTICIPATED.

MUTAGENICITY..... NO INFORMATION IS AVAILABLE AND NO ADVERSE MUTAGENIC EFFECTS ARE ANTICIPATED.

**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..... NOT REGULATED BY WHMIS.

CNFC SECTION 3.3.5..... LEVEL 2.

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..... 2 MODERATE HAZARD.

HMIS RATING FLAMMABILITY..... 4 SEVERE HAZARD.

HMIS RATING REACTIVITY..... 0 MINIMAL HAZARD.

HMIS RATING PERSONAL PROTECTION.. B.

NFPA CODE 30B..... LEVEL 2.

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 #:	. *51-03-6	CHEMICAL NAME:	PIPERONYL
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CALIFORNIA PROPOSITION 65:..... BUTOXIDE.

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 #:	N/A.
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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%)..... 35-36.

**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.

PRODUCT: 07302-0001 BUGKILL 400G

**Section 16: OTHER INFORMATION**

PREPARED BY..... Regulatory Affairs  
PREPARATION DATE ..... Mar25/13