

**METERED SPRAY** *for* **FLYING INSECTS** (Formula 2818) Commercial-aerosol, hand-held also**SECTION 01: MANUFACTURER INFORMATION**

FORMULATION NUMBER.....012-5-115. ( )  
CHEMICAL FAMILY.....PYRETHRINS/PIPERONYL BUTOXIDE.  
TRADE NAMES & SYNONYMS.....SAME AS PRODUCT NAME.  
PRODUCT USES.....INSECTICIDE.  
CHEMICAL FORMULA.....NOT APPLICABLE.  
MOLECULAR WEIGHT.....NOT APPLICABLE.  
T.D.G. CLASSIFICATION.....CONSUMER COMMODITY.  
WHMIS CLASSIFICATION.....NOT APPLICABLE.  
CNFC SECTION 3.3.5.....LEVEL 3.  
NFPA CODE 30B.....LEVEL 3.  
HMIS RATING FLAMMABILITY.....4 SEVERE HAZARD.  
HMIS RATING HEALTH.....2 MODERATE HAZARD.  
HMIS RATING REACTIVITY.....0 MINIMAL HAZARD.

**SECTION 02: HAZARDOUS INGREDIENTS**

	%	CAS / TLV	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES
PYRETHRINS	1.8	8003-34-7	1680 mg/kg N/ A	5 mg/m3 ORAL - RAT
PIPERONYL BUTOXIDE (1)		10.000	51-03-6	7.5-10.0 g/kg N/ A N/ A ORAL - RAT
ODOURLESS MINERAL SPIRITS	10-20	64742-47-8	>5000 mg/kg	N/ A 100 ppm ORAL - RAT
PROPANE	7-13	74-98-6	N/ A N/ A	N/ A N/ A 1000 ppm
ISOBUTANE	40-70	75-28-5	N/ A	520,000ppm (2 hr) 800 ppm INHAL - MOUSE

(1) THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

**SECTION 03: PHYSICAL DATA**

PHYSICAL STATE.....AEROSOL.  
BOILING POINT (DEG C)(CONC).....171-205.  
VAPOUR PRESSURE(PSIG)-AEROSOL.....50 - 60. @ 20 C  
VAPOUR DENSITY (AIR=1).....GREATER THAN 1. (BY WEIGHT)  
SOLUBILITY IN WATER.....NEGLIGIBLE.  
APPEARANCE.....CLEAR AMBER LIQUID.  
ODOR.....HYDROCARBON.  
ODOR THRESHOLD.....NOT AVAILABLE.  
SPECIFIC GRAVITY (LIQUID).....0.86-0.90.  
SPECIFIC GRAVITY (AEROSOL).....0.62-0.66.  
AEROSOL PERCENT VOC (W/W).....94-95.  
AEROSOL PERCENT VOLATILE.....94-95. (BY WEIGHT)  
EVAPORATION RATE.....LESS THAN 1 n-BUTYL ACETATE = 1pH.....NOT APPLICABLE.  
FREEZING POINT: (C).....NOT AVAILABLE.  
COEFFICIENT OF WATER/OIL...NOT AVAILABLE. DIST.

**SECTION 04: FIRE & EXPLOSION DATA**

AEROSOL FLAME PROJECTION CLASSIFIED AS:> 45 CM. FLASHBACK.....NONE.  
FLAMMABILITY.....EXTREMELY FLAMMABLE.  
IF YES, UNDER WHICH.....EXCESSIVE HEAT, SPARKS AND OPEN FLAME. CONDITIONS ?  
EXTINGUISHING MEDIA.....CARBON DIOXIDE, DRY CHEMICAL, FOAM.  
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.

FLASH POINT(C),TAG CLOSED-CUP.....>43. (CONCENTRATION)

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

LOWER FLAMMABLE LIMIT.....1. (% BY VOLUME)

UPPER FLAMMABLE LIMIT.....9.5. (% BY VOLUME)

HAZARDOUS COMBUSTION PRODUCTS.....

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

EXPLOSION DATA SENSITIVITY TO STATIC.....NOT APPLICABLE. DISCHARGE

SENSITIVITY TO IMPACT.....NOT APPLICABLE.

#### **SECTION 05: REACTIVITY DATA**

CHEMICAL STABILITY: YES

UNDER NORMAL CONDITIONS. NO,  
WHICH CONDITIONS?.....NOT APPLICABLE.

COMPATIBILITY WITH OTHER

SUBSTANCES : NO, WHICH ONES?.....STRONG OXIDIZING AGENTS.

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

HAZARDOUS POLYMERIZATION.....WILL NOT OCCUR.

REACTIVITY CONDITIONS?.....NOT APPLICABLE.

#### **SECTION 06: TOXICOLOGICAL PROPERTIES**

ROUTE OF ENTRY:

SKIN CONTACT.....MAY CAUSE IRRITATION.

SKIN ABSORPTION.....NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE.

EYE CONTACT.....MAY CAUSE IRRITATION.

INHALATION.....INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A  
SIMPLE ASPHYXIAN.

INGESTION....MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.

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 II.

IRRITANCY OF MATERIAL.....SLIGHT.

SENSITIZING CAPABILITY OF.....UNKNOWN.

MATERIAL 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 ACGIH (AMERICAN CONFERENCE OF BY  
GOVERNMENTAL INDUSTRIAL HYGIENISTS).

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

REPRODUCTIVE EFFECTS ARE ANTICIPATED.

TERATOGENICITY.....NO INFORMATION IS AVAILABLE AND NO ADVERSE

TERATOGENIC EFFECTS ARE ANTICIPATED.

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

SYNERGISTIC MATERIALS.....NONE KNOWN.



**SECTION 07: PREVENTIVE MEASURES**

GLOVES/ TYPE.....NOT NORMALLY REQUIRED.

RESPIRATORY/TYPE.....NOT NORMALLY REQUIRED.

EYE/TYPE.....SAFETY GLASSES.

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

OTHER/TYPE.....NOT REQUIRED.

ENGINEERING CONTROLS....VENTILATION - LOCAL (MECHANICAL IF USED  
INDOORS ON A CONTINUOUS BASIS).LEAK/SPILL.....REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL,  
AND NON-SPARKING TOOLS. AVOID BREATHING FUMES. VENTILATE AREA. PREVENT FROM  
ENTERING A WATERCOURSE.HANDLING PROCEDURES AND EQUIPMENT. STORE IN A COOL, WELL VENTILATED AREA NOT TO  
EXCEED 50 DEG C.WASTE DISPOSAL.....DO NOT PUNCTURE OR INCINERATE CONTAINERS,  
EVEN WHEN EMPTY.DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL  
REGULATIONS.

STORAGE NEEDS.....KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.

SPECIAL SHIPPING INSTRUCTIONS.....SEE SECTION 1.....TDG CLASSIFICATION.

**SECTION 08: 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 09: ADDITIONAL INFORMATION**

THE INFORMATION ON THIS MATERIAL SAFETY

NOTICE FROM NPI & BUGCON DATA SHEET IS PROVIDED BY NPI & BUGCON FREE OF CHARGE. WHILE  
BELIEVED TO BE RELIABLE, IT IS INTENDED FOR USE BY SKILLED PERSONS AT THEIR OWN RISK.NPI & BUGCON 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.

DATED.....22 September 2004

**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**This information is provided in good Faith out express or implied warranty Buyer assumes all responsibility for safety and use not in accordance with  
label instructions.