



# DUAL ACTION aerosol-domestic

## **SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

### EMERGENCY TELEPHONE NUMBER

In case of medical environmental or transportation emergencies or

Inquiries. call 1-800-471-0660 (24 hours day).

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

MEDICAL: 1-800-633-9576

TRANSPORTATION: 1-800-535-5053

PRODUCT NAME..... same as above

FORMULATION #.....

CHEMICAL FAMILY.....PROPOXUR-PYRETHRIN.

TRADE NAMES & SYNONYMS.....SAME AS PRODUCT NAME.

PRODUCT USES.....INSECTICIDE.

CHEMICAL FORMULA.....NOT APPLICASBLE.

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**

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV	OTHER	%	CAS NO
Isoparaffinic Hydrocarbon	N/E	N/E	300 ppm++	85 - 90	64742-47-8
Pyrethrins	5 mg/m3	5 mg/m3	N/A	0.05 - 0.1	003-34-7
Piperonyl Butoxide	NE	NE	NE	0.1 - 0.15	200-76-7
N-Octyl Bicycloheptene Dicarboximide	NE	NE	NE	0.1 - 0.2	113-48-4
Propoxur	NE	0.5 ppm	NE	.4 - 0.6	114-26-1
2-Butoxyethanol	50 ppm	25 ppm	NE	7 - 8	111-76-2
Carbon Dioxide	5000 ppm	30000 ppm	N/A	3	124-38-9

### ABBREVIATIONS

NE: None established NA: Not applicable +: ACGIH CAL OSHA N/D: Not determined "STEL": Short term,

\*Allied Signal exposure limit

## **SECTION 03: PHYSICAL DATA**

PHYSICAL STATE.....AEROSOL

BOILING POINT (DEG C)(CONC).....23 - 205.

VAPOUR PRESSURE(P SIG)-AEROSOL.....105 - 115. @ 20 C

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

SOLUBILITY IN WATER.....NEGLIGIBLE.

APPEARANCE.....CLEAR YELLOW LIQUID.

ODOR.....PROPOXUR.

ODOR THRESHOLD.....NOT AVAILABLE.

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

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

AEROSOL PEWRCENT VOC (W/W) 95-96

AEROSOL PERCENT VOLATILE.....98-99. (BY WEIGHT)

EVAPORATION RATE.....GREATER THAN 1. n-BUTYL ACETATE = 1



pH.....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 APPARTATUS SHOULD BE WORN IN A FIRE INVOLVING THIS MATERIAL.  
FLASH POINT(C),TAG CLOSED-CUP.....>14. (CONCENTRA TE)  
AUTO IGNITION TEMPERATURE (C).....399.  
LOWER FLAMMABLE LIMIT.....1. (% BY VOLUME)  
UPPER FLAMMABLE LIMIT.....12(% 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.  
COMPATABILITY 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.....VAPOUR MAY IRRITATE.  
INHALATION.....INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE ASPHYXIANT.  
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.....SKIN/EYE IRRITANT.  
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 BY ACGIH (AMERICAN CONFERENCE OF 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.....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.

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.DIPOSE 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

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