



PCP 23449

Material Safety Data Sheet

May 5th 2004

ZEP BUGCON FORMULA PYRETHRIN**ZEP MANUFACTURING CO****11627-178 ST EDMONTON AB T5S 1N6****1 877 453 5800****SECTION 1: MANUFACTURER INFORMATION**

MANUFACTURER

NATURAL PROPELLENT INC

P.O.BOX 63589 WOODSIDE SQ.MALL. 1571 SANDHURST CIRCLE

AGINCOURT, ONTARIO CANADA M1V 1V0

PRODUCT NAME.....5300-0001 METERED INSECTICIDE SPRAY

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			
0.500	8003-34-7	1680 mg/kg	NOT AVAILABLE
	5 mg/m3	ORAL - RAT	
PIPERONYL BUTOXIDE (1)			
4.000	51-03-6	7.5-10.0 g/kg	NOT AVAILABLE
		ORAL - RAT	
ODOURLESS MINERAL SPIRITS			
10-30	64742-47-8	>5000 mg/kg	NOT AVAILABLE
	100 ppm	ORAL - RAT	
PROPANE			
7-13	74-98-6	NOT APPLICABLE	NOT AVAILABLE
	1000 ppm		
ISOBUTANE			
40-70	75-28-5	NOT APPLICABLE	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(P SIG)-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 = 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.....>43. (CONCENTRA TE)
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.
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.....MAY CAUSE IRRITATION.
INHALATION.....INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A
SIMPLE ASPHYXIAANT.
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 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.....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



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SWALLOWED; DO NOT INDUCE VOMITING, GET
MEDICAL ATTENTION.

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SECTION 09: ADDITIONAL INFORMATION

NOTICE FROM NPI and ZEP INDUSTRIES INC.....
THE INFORMATION ON THIS MATERIAL SAFETY
DATA SHEET IS PROVIDED BY CCL INDUSTRIES
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DATED.....May 5th 2004