

**EXTERMINATOR** (ZEP) **JUMBO** 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).

PRODUCT NAME.....**HATARI**

FORMULATION #.....012-6-129.

CHEMICAL FAMILY.....D-TRANS ALLETHRIN/PERMETHRIN/MGK264.

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

PRODUCT USES.....INSECTICIDE.

CHEMICAL FORMULA.....MIXTURE.

MOLECULAR WEIGHT.....NOT APPLICABLE.

T.D.G. CLASSIFICATION.....CONSUMER COMMODITY.

WHMIS CLASSIFICATION.....NOT APPLICABLE.

CNFC SECTION 3.3.5.....LEVEL 1.

NFPA CODE 30B.....LEVEL 1.

HMIS RATING FLAMMABILITY.....1 SLIGHT HAZARD.

HMIS RATING HEALTH.....2 MODERATE HAZARD.

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

PRODUCT DESCRIPTION: **HATARI** is a ready-to-use AEROSOL insecticide for domestic use both indoors and outdoors.

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

%	CAS / TLV	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES
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ISOPARAFFINIC HYDROCARBONS

1-5	64742-47-8	N/A	100 ppm
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D-TRANS ALLETHRIN

0.050	28434-00-6	709-1042 mg/kg	>2000 mg/m ³ (24 H)	N\A	ORAL - RAT	INHAL - RAT
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N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE

0.250	113-48-4	4980 mg/kg	4080 mg/L	ORAL - RAT	INHAL - RAT
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PERMETHRIN

0.200	52645-53-1	>2500 mg/kg	N\A	N\A	ORAL - RAT
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DIMETHYL ETHER

10-30	115-10-6	N\A	164000 ppm (4h)	1000 ppm	RAT - INHAL
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SECTION 3. PHYSICAL**EMERGENCY OVERVIEW**

PHYSICAL STATE.....AEROSOL.

BOILING POINT (DEG C)(CONC).....100 - 205.

VAPOUR PRESSURE(PSIG)-AEROSOL.....30 - 40. @ 20 C

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

SOLUBILITY IN WATER.....SOLUBLE.

APPEARANCE.....MILKY WHITE.

ODOR.....INSECTICIDE.

ODOR THRESHOLD.....NOT AVAILABLE.



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SPECIFIC GRAVITY (LIQUID).....0.95-0.99.

SPECIFIC GRAVITY (AEROSOL).....0.89-0.93.

AEROSOL PERCENT VOC (W/W).....16-17.

AEROSOL PERCENT VOLATILE.....95-96. (BY WEIGHT)

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

pH.....9-10.

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

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

SECTION 4. FIRE AND EXPLOSION DATA

AEROSOL FLAME PROJECTION

CLASSIFIED AS:.....0 CM.

FLASHBACK.....NONE.

FLAMMABILITY.....NON-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.....18.0. (% BY VOLUME)

HAZARDOUS COMBUSTION

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

EXPLOSION DATA

SENSITIVITY TO STATIC.....NOT APPLICABLE.

DISCHARGE

SECTION 5. 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 6. 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 ASPHYXANT.

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

EFFECTS OF ACUTE EXPOSURE:...DIZZINESS, NAUSEA. IRRITATION TO SKIN & EYES.



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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 7. 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 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 9. PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE** milky white liquid.**ODOR** Mild aromatic**BASIC PHYSICAL PROPERTIES**

PHYSICAL STATE Liquid ph: Neutral (6 - 8)

VAPOR PRESSURE: Not available

VAPOR DENSITY (AIR=1): Not available

EVAPORATION RATE (BUTYL ACETATE=1): Not Available

SPECIFIC GRAVITY OR DENSITY: 1.00 @ 20° C

PACKING (BULK) DENSITY: Not available

BOILING POINT/RANGE: Not available

MELTING/FREEZING POINT RANGE: Not available

SOLUBILITY (IN WATER): Not available

SOLBILITY IN SOLVENTS/OIL (SPECIFIED): Not available

DUST EXPLOSION SEVERITY DATA: Not applicable

MINIMUM IGNITION ENERGY (MJ): Not available

MINIMUM EXPLOSION CONCENTRATION (MEC): Not available

LIMITED OXYGEN CONCENTRATION (LOC): Not available

SECTION 10: 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.

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DATED.....22 September 2004

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