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MANUFACTURER Ultrasol Industries.

10755-Avenue

Edmonton, Alberta

CANADA

T6H2C9

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

PRODUCT NAME..... DR.DOOM INSECT REPELLENT (30%) 284G

CHEMICAL FAMILY..... DEET.

MOLECULAR WEIGHT..... NOT APPLICABLE.

CHEMICAL FORMULA..... MIXTURE.

TRADE NAMES & SYNONYMS..... PCP ACT # 29019

PRODUCT USES..... REPELLENT.

FORMULATION NUMBER..... 012-5-45/012-6-251.

FORMULA/LAB BOOK #..... 99-69186.

Section 02: COMPOSITION/INFORMATION INGREDIENTS

Hazardous Ingredients % Exposure Limit C.A.S.# LD/50, Route, Species LC/50 Route, Species

N,N-DIETHYL m-TOLUAMIDE 25.000 NOT AVAILABLE 134-62-3 2000 mg/kg ORAL-RAT 5950 mg/kg INHAL-RAT

N-OCTYL BICYCLOHEPTENE 5.000 NOT AVAILABLE 113-48-4 4980 mg/kg ORAL - RAT 4080 mg/L INHAL - RAT

DICARBOXIMIDE

DI-N-PROPYL NOT AVAILABLE 136-45-8 5120 mg/kg ORAL - RAT 6.08 mg/kg INHAL - RAT

ISOCINCHOMERONATE

ISOPROPYL PALMITATE 142-91-6 >5ML/KG NOT AVAILABLE

ISOPROPANOL 67-63-0 >4720 mg/kg ORAL - RAT 12000 ppm (8hr) INHAL -

RAT

ISOBUTANE 75-28-5 NOT APPLICABLE 142,500 ppm (4h) INHAL -

RAT

PROPANE 74-98-6 NOT APPLICABLE 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

ASPHYXIAN.

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)..... 399.

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.

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..... 12.

(% BY VOLUME)

LOWER FLAMMABLE LIMIT..... 1.9.

(% BY VOLUME)

EXPLOSION DATA

SENSITIVITY TO STATIC DISCHARGE..... NOT APPLICABLE.

SENSITIVITY TO IMPACT..... NOT APPLICABLE.
HAZARDOUS COMBUSTION
PRODUCTS..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE
WHERE COMBUSTION IS
INCOMPLETE.
AEROSOL FLAME PROJECTION
CLASSIFIED AS:..... >15cm BUT <100cm.
FLASHBACK..... YES.

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PRODUCT: DR.DOOM INSECT REPELLENT (30%) 230G

Section 05: FIRE FIGHTING MEASURES

FLASH POINT(°C),TAG CLOSED-CUP LOWEST KNOWN VALUE IS ISOPROPANOL @ 14C/53F .
(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..... NOT NORMALLY REQUIRED.
EYE/TYPE..... SAFETY GLASSES.
FOOTWEAR/TYPE..... NOT NORMALLY REQUIRED.
OTHER/TYPE..... NOT REQUIRED.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... AEROSOL.
APPEARANCE..... CLEAR AMBER LIQUID.
ODOR..... FRAGRANT.
ODOR THRESHOLD..... NOT AVAILABLE.
VAPOUR PRESSURE(PSIG)-AEROSOL..... 40 - 50.
@ 20 C
BOILING POINT (°C)(CONC)..... 83 TO 171.
EVAPORATION RATE..... GREATER THAN 1.
n-BUTYL ACETATE = 1
VAPOUR DENSITY (AIR=1)..... GREATER THAN 1.
(BY WEIGHT)
SOLUBILITY IN WATER g/L (20°C)..... NOT AVAILABLE.
pH..... NOT APPLICABLE.
SPECIFIC GRAVITY (LIQUID)..... 0.85-0.89.
COEFFICIENT OF WATER/OIL DIST..... NOT AVAILABLE.
FREEZING POINT: (°C)..... NOT AVAILABLE.
AEROSOL PERCENT VOLATILE..... 64-65.
(BY WEIGHT).
SPECIFIC GRAVITY (AEROSOL)..... 0.75-0.79.

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.

Section 11: TOXICOLOGICAL INFORMATION

REPRODUCTIVE EFFECTS..... NO INFORMATION IS AVAILABLE AND NO ADVERSE
REPRODUCTIVE EFFECTS ARE
ANTICIPATED.
IRRITANCY OF MATERIAL..... SKIN/EYE IRRITANT.
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.

MATERIAL SAFETY DATA SHEET Page 3

PRODUCT: DR.DOOM INSECT REPELLENT (30%) 230G

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..... LIMITED QUANTITY. 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 NO INGREDIENTS SUBJECT TO THE REPORTING REQUIREMENTS

OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372. .

CAS #: CHEMICAL NAME: .

N/A.

CALIFORNIA PROPOSITION 65:..... 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 #: CHEMICAL NAME: .

N/A.

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%)..... 64-65.

Section 16: OTHER INFORMATION

NOTICE FROM ULTRASOL INDUSTRIES THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET IS PROVIDED BY ULTRASOL

INDUSTRIES. FREE OF CHARGE. WHILE BELIEVED TO BE RELIABLE, IT IS INTENDED FOR USE BY SKILLED PERSONS AT THEIR OWN RISK. ULTRASOL INDUSTRIES. 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.

PREPARED BY..... TECHNICAL SERVICES

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