

MATERIAL SAFETY DATA SHEET

KUUS INC.

KNOCK DOWN BED BUG KILLER

Effective Date: March 1, 2015

1. MATERIAL IDENTIFICATION AND USE

MANUFACTURER'S NAME	KUUS INC.
MANUFACTURER'S ADDRESS	450 TAPSCOTT ROAD, UNIT 5 & 6 SCARBOROUGH, ONTARIO M1B 1Y4
MANUFACTURER'S TELEPHONE NO.	1-800-267-0455
SUPPLIER IDENTIFIER	AS MANUFACTURER
SUPPLIER'S ADDRESS	AS MANUFACTURER
SUPPLIER'S TELEPHONE NO.	AS MANUFACTURER
PRODUCT IDENTIFIER	PROFESSIONAL KNOCK DOWN BED BUG & TICK INSECT KILLER FORMULA: DOMESTIC
PRODUCT CODE	KD111SP
PRODUCT USE	INSECTICIDE

2. HAZARDOUS INGREDIENTS OF MATERIALS

INGREDIENTS	(%)	Exposure Limit	CAS NUMBER:	LD50(species/route)	LD50(species/route)
D-PHENOTHRIN	0.200		26002-80-2	>5000 mg/kg ORAL-RAT	>2100 mg/m ³ INHAL-RAT(4hr)
TETRAMETHRIN (NEOPYNAMIN)	0.200	N/A	7696-12-0	>5000 mg/kg ORAL-RAT	NOT AVAILABLE
PARAFFINIC NAPHTHENIC	3-7	100 ppm	64742-47-8	>5000 mg/kg ORAL-RAT	6.8 mg/l
SOLVENT					
ISOBUTANE	10-30	1000 ppm	75-28-5	NOT APPLICABLE	142,500 ppm (4h) INHALRAT
PROPANE	1-5	1000 ppm	74-98-6	>5000 mg/kg DERMAL-RABBITS	NOT AVAILABLE

3. PHYSICAL DATA FOR PRODUCT

PHYSICAL STATE	AEROSOL.
APPEARANCE	COLORLESS LIQUID.
ODOR	INSECTICIDE.
ODOR THRESHOLD	NOT AVAILABLE.
VAPOUR PRESSURE(PSIG)-AEROSOL	50-60 @ 20 C

BOILING POINT (°C)(CONC)	100-263.
EVAPORATION RATE VAPOUR DENSITY (AIR=1)	GREATER THAN 1 n-BUTYL ACETATE = 1 GREATER THAN 1(BY WEIGHT)
SOLUBILITY IN WATER g/L (20°C)	SOLUBLE.
Ph	6.5 - 7.5.
SPECIFIC GRAVITY (LIQUID)	0.98-1.02.
COEFFICIENT OF WATER\OIL DIST	NOT AVAILABLE.
FREEZING POINT: (°C)	NOT AVAILABLE.
AEROSOL PERCENT VOLATILE	93-94 (BY WEIGHT).
SPECIFIC GRAVITY (AEROSOL)	0.77-0.81.
AEROSOL PERCENT VOC (w/w)	30-31.

4. FIRE AND EXPLOSION HAZARD OF PRODUCT

AUTO IGNITION TEMPERATURE (°C)	218.
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.
FLAMMABILITY	NOT A FLAMMABLE PRODUCT (AS PER CANADIAN AEROSOL REGULATIONS).
IF YES, UNDER WHICH CONDITIONS?	EXCESSIVE HEAT, SPARKS AND OPEN FLAME.
EXTINGUISHING MEDIA	WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.
UPPER FLAMMABLE LIMIT	9.5 (% BY VOLUME)
LOWER FLAMMABLE LIMIT	0.5 (% 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:	0 cm.
FLASHBACK	NONE.
FLASH POINT(°C),TAG CLOSED-CUP (CONCENTRATE)	105.

5. REACTIVITY DATA

HAZARDOUS PRODUCTS OF DECOMPOSITION	HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
CHEMICAL STABILITY: YES NO, WHICH CONDITIONS?	UNDER NORMAL CONDITIONS. NOT APPLICABLE.
COMPATIBILITY WITH OTHER SUBSTANCES: NO, WHICH ONES?	STRONG OXIDIZING AGENTS.
REACTIVITY CONDITIONS?	NOT APPLICABLE.

6. TOXICOLOGICAL PROPERTIES OF PRODUCT

ROUTE OF ENTRY:	
INGESTION	MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.
INHALATION	INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE ASPHYXIANT.
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.
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.

7. PREVENTIVE MEASURES

EYE PROTECTION REQUIREMENTS	WEAR SAFETY GLASSES
GLOVE REQUIREMENTS	NOT NORMALLY REQUIRED
CLOTHING REQUIREMENTS	NOT NORMALLY REQUIRED
RESPIRATOR REQUIREMENTS	NONE REQUIRED FOR NORMAL USAGE.
ENGINEERING CONTROLS REQUIRED	VENTILATION – LOCAL (MECHANICAL IF USED INDOORS ON A CONTINUOUS BASIS)
SPILL AND LEAK PROCEDURES	REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL, AND NON-SPARKING TOOLS. VENTILATE AREA. PREVENT FROM ENTERING A WATERCOURSE.
WASTE DISPOSAL METHODS	DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.
HANDLING/STORAGE	KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. STORE IN COOL, WELL VENTILATED AREA NOT TO EXCEED 50°C.

8. 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.
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9. REGULATORY INFORMATION

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION
CNFC SECTION 3.3.5
CEPA (Canadian Environmental Protection Act)

NOT REGULATED BY WHMIS.
LEVEL 1.
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
HMIS RATING FLAMMABILITY
HMIS RATING REACTIVITY
HMIS RATING PERSONAL PROTECTION
NFPA CODE 30B
SARA 313 INFORMATION

2 MODERATE HAZARD.
1 SLIGHT HAZARD.
0 MINIMAL HAZARD.
B.
LEVEL 1.
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%)

30-31.

10. TRANSPORTATION INFORMATION

T.D.G. CLASSIFICATION

CONSUMER COMMODITY (AEROSOLS, UN1950, CLASS 2.1).

D.O.T. CLASSIFICATION

CONSUMER COMMODITY, ORM-D.

11. PREPARATION DATE OF MATERIAL SAFETY DATA SHEET

PREPARED BY	KUUS INC.
TELEPHONE NUMBER OF PREPARER	1-800-267-0455
DATE PREPARED	March 1, 2015

THE INFORMATION CONTAINED HEREIN IS OFFERED ONLY AS A GUIDE TO THE HANDLING OF THIS SPECIFIC MATERIAL AND HAS BEEN PREPARED IN GOOD FAITH BY TECHNICALLY KNOWLEDGEABLE PERSONNEL. IT IS NOT INTENDED TO BE ALL-INCLUSIVE AND THE MANNER AND CONDITIONS OF USE AND HANDLING MAY INVOLVE OTHER ADDITIONAL CONSIDERATIONS. NO WARRANTY OF ANY KIND IS GIVEN OR IMPLIED AND KUUSPORT MANUFACTURING LIMITED WILL NOT BE LIABLE FOR ANY DAMAGES, LOSSES, INJURIES OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM THE USE OR RELIANCE ON ANY INFORMATION CONTAINED HEREIN.