

## MATERIAL SAFETY DATA SHEET

KUUS INC.

### KNOCK DOWN BED BUG KILLER

Effective Date: May 30, 2014

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#### 1. MATERIAL IDENTIFICATION AND USE

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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	<b>KNOCK DOWN BED BUG KILLER</b> FORMULA: DOMESTIC
PRODUCT CODE	<b>KD111D</b>
PRODUCT USE	INSECTICIDE

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#### 2. HAZARDOUS INGREDIENTS OF MATERIALS

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INGREDIENTS	PERCENTAGE (%)	CAS NUMBER:	LD50(species/route)	LD50(species/route)
Pyrethrins	0.250	8003-34-7	1680mg/kg (oral-rat)	Not Available
Piperonyl Butoxide	1.250	51-03-6	4.6g/kg (oral-rat)	>5.9mg/l
Aliphatic Petroleum Distillates	7-13	64742-47-8	>5000mg/kg (oral-rat)	Not Available
Isobutane	10-30	75-28-5	Not Applicable	142500ppm/4h (inhal-rat)
Propane	1-5	74-98-6	Not Applicable	Not Available

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#### 3. PHYSICAL DATA FOR PRODUCT

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PHYSICAL STATE	AEROSOL
ODOUR AND APPEARANCE	OFF-WHITE EMULSION. PYRETHRIN.
VAPOUR PRESSURE (mm Hg)	40-50 at 20°C
SPECIFIC GRAVITY	0.76-0.80
EVAPORATION RATE	(N-BUTYL ACETATE=1): GREATER THAN 1
VAPOUR DENSITY	(AIR=1): GREATER THAN 1
% VOLATILE	(BY WEIGHT): 92-93

BOILING POINT	100°C
SOLUBILITY IN WATER (20°C)	SOLUBLE

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#### 4. FIRE AND EXPLOSION HAZARD OF PRODUCT

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EXTINGUISHING MEDIA	WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.
FLASHPOINT	78°C
UPPER EXPLOSION LIMIT (% BY VOL)	9.5
LOWER EXPLOSION LIMIT (% BY VOL)	0.6
SPECIAL PROCEDURES	FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARTATUS SHOULD BE WORN.

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#### 5. REACTIVITY DATA

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CHEMICAL STABILITY	STABLE
INCOMPATIBLE MATERIALS	STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS	HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.

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#### 6. TOXICOLOGICAL PROPERTIES OF PRODUCT

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##### SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY	
SKIN CONTACT	YES
EYE CONTACT	YES
ACUTE EFFECTS – INGESTION	HEADACHE, NAUSEA, VOMITING AND WEAKNESS
ACUTE EFFECTS – SKIN CONTACT	FREQUENT OR PROLONGED CONTACT MAY IRRITATE THE SKIN.
ACUTE EFFECTS – INHALATION	INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE ASPHYXIANT.
ACUTE EFFECTS – EYE	FREQUENT OR PROLONGED CONTACT TO VAPOURS MAY IRRITATE THE EYES.

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## 7. TOXICOLOGICAL PROPERTIES OF PRODUCT (CONT'D)

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### LONG TERM EFFECTS OF EXPOSURE

EFFECTS OF CHRONIC EXPOSURE  
TARGET ORGANS

SOLVENTS MAY CAUSE DEFATTING DERMATITIS

### SPECIAL HEALTH EFFECTS

CARCINOGENICITY

NO

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## 8. PREVENTIVE MEASURES

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CONDITIONS UNDER WHICH PPE REQ'D

NORMAL WORK CONDITIONS

EYE PROTECTION REQUIREMENTS

NONE REQUIRED FOR NORMAL USAGE. WEAR SAFETY GLASSES

GLOVE REQUIREMENTS

NOT NORMALLY REQUIRED

CLOTHING REQUIREMENTS

NOT NORMALLY REQUIRED

RESPIRATOR REQUIREMENTS

NONE REQUIRED FOR NORMAL USAGE.

ENGINEERING CONTROLS REQUIRED

VENTILATION

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.

STORAGE TEMPERATURE

AMBIENT

HANDLING/STORAGE

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. STORE IN COOL, WELL VENTILATED AREA NOT TO EXCEED 50°C.

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## 9. FIRST AID MEASURES

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INGESTION

IF SWALLOWED, DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.

SKIN CONTACT

WASH THOROUGHLY WITH SOAP AND WATER.

INHALATION

IF INHALATION OR VAPOUR OR SPRAY MIST, REMOVE TO FRESH AIR.

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## 10. FIRST AID MEASURES

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EYE	FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION.
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## 11. REGULATORY INFORMATION

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### CANADIAN REGULATIONS:

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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:

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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 THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372: .  
CAS #:                      CHEMICAL NAME: .  
\*51-03-6                      PIPERONYL BUTOXIDE.  
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.  
ALL COMPONENT OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING.  
32-33.

CALIFORNIA PROPOSITION 65

TSCA (Toxic Substances Control Act)

VOC (w/w%)

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## 12. TRANSPORTATION INFORMATION

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T.D.G. CLASSIFICATION	CONSUMER COMMODITY (AEROSOLS, UN1950, CLASS 2.1).
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D.O.T. CLASSIFICATION	CONSUMER COMMODITY, ORM-D.
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### 13. PREPARATION DATE OF MATERIAL SAFETY DATA SHEET

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PREPARED BY	KUUS INC.
TELEPHONE NUMBER OF PREPARER	1-800-267-0455
DATE PREPARED	<b>May 30, 2014</b>

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