MATERIAL SAFETY DATA SHEET

KUUS INC.

KNOCK DOWN TOTAL RELEASE FUMIGATOR 340G

Effective Date: April 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 KNOCK DOWN TOTAL RELEASE FUMIGATOR 340G

FORMULA: DOMESTIC

PRODUCT CODE KD401D

PRODUCT USE INSECTICIDE

2. HAZARDOUS INDGREDIENTS OF MATERIALS

INGREDIENTS	PERCENTAGE (%)	CAS NUMBER:	LD50(species/route)	LD50(species/route)
Pyrethrins Piperonyl Butoxide Isopropanol Heptane Propane	0.4 2.0 5-10 30-60 15-40	8003-34-7 51-03-6 67-63-0 142-82-5 74-98-6	1680mg/kg (oral-rat) 4.6g/kg (oral-rat) >4720 mg/kg (oral-rat) >15000 mg/kg (oral-rat) >5000mg/kg Dermal-Rabbits	Not Available >5.9mg/l 12000 ppm/8h (inhal-rat) Not Available Not Available

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:

INGESTION MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS

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

Section 03: HAZARDS IDENTIFICATION Cont'd

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

PYRETHRINS
PIPERONYL BUTOXYDE
ISOPROPANOI

ISOPROPANOL HEPTANE PROPANE 5mg/m³ N/A 400ppm 400ppm 1000ppm

4. 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.

5. FIRE AND EXPLOSION HAZARD OF PRODUCT

AUTO IGNITION TEMPERATURE (°C) 246-260

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 EXTREMELY FLAMMABLE.

IF YES, UNDER WHICH CONDITIONS? EXCESSIVE HEAT, SPARKS AND OPEN FLAME.

EXTINGUISHING MEDIA WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.

UPPER FLAMMABLE LIMIT (% BY VOL) 12.6

LOWER FLAMMABLE LIMIT (% BY VOL) 1.2

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 NONE

5. FIRE AND EXPLOSION HAZARD OF PRODUCT (CONT'D)

FLASH POINT(°C), TAG CLOSED-CUP (CONCENTRATE)

LOWEST KNOWN VALUE IS HEPTANE @ -7°C.

6. 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.

7. 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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE NOT NORMALLY REQUIRED

RESPIRATORY/TYPE IF USED INDOORS ON A CONTINUOUS BASIS, USE OF A CARTRIDGE

TYPE RESPIRATOR (NIOSH/MSHATC 23C OR EQUIVALENT) IS

RECOMMENDED.

EYE/TYPE SAFETY GLASSES

FOOTWEAR/TYPE NOT NORMALLY REQUIRED

OTHER/TYPE NOT REQUIRED

9. PHYSICAL DATA FOR PRODUCT

PHYSICAL STATE AEROSOL

ODOUR AND APPEARANCE PYRETHRIN. CLEAR YELLOW LIQUID.

ODOUR THRESHOLD NOT AVAILABLE

VAPOUR PRESSURE (mm Hg) 35-45 at 20°C

SPECIFIC GRAVITY (LIQUID) 0.69-0.73

EVAPORATION RATE (N-BUTYL ACETATE=1): GREATER THAN 1

9. PHYSICAL DATA FOR PRODUCT Cont'd

VAPOUR DENSITY (AIR=1): GREATER THAN 1

% VOLATILE (BY WEIGHT): 97-98

BOILING POINT 83-92°C

SOLUBILITY IN WATER (20°C) NEGLIGIBLE

PH NOT APPLICABLE

COEFFICIENT OF WATER\OIL DIST NOT AVAILABLE

FREEZING POINT: (°C) NOT AVAILABLE

SPECIFIC GRAVITY (AEROSOL) 0.61-0.65

AEROSOL PERCENT VOC (w/w) 97-98

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

11. TOXICOLOGICAL INFORMATION

REPRODUCTIVE EFFECTS BENZENE - CAUSES FOETOTOXICITY IN ANIMALS AT DOSES WHICH ARE

MATERNALLY TOXIC. DOES NOT IMPAIR FERTILITY.

IRRITANCY OF MATERIAL SKIN/EYE IRRITANT

SENSITIZING CAPABILITY OF MATERIAL UNKNOWN

CARCINOGENICITY OF MATERIAL HEPTANE CONTAINS TRACE AMOUNT OF BENZENE - CARCINOGENIC

RISKS TO HUMANS BASED ON THE EVALUATION OF IARC WORKING

GROUP.

TERATOGENICITY NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC

EFFECTS ARE ANTICIPATED.

MUTAGENICITY BENZENE - MAY CAUSE HERITABLE GENETIC DAMAGE

12. ECOLOGICAL CONSIDERATIONS

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NOT AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

DO NOT PUNCTURE OR INCINERATE CONTAINERS. EVEN WHEN EMPTY. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL

REGULATIONS.

14. TRANSPORTATION INFORMATION

T.D.G. CLASSIFICATION CONSUMER COMMODITY (AEROSOLS, UN1950, CLASS 2.1).

CONSUMER COMMODITY, ORM-D. D.O.T. CLASSIFICATION

15. REGULATORY INFORMATION

CANADIAN REGULATIONS:

NOT REGULATED BY WHMIS. WHMIS CLASSIFICATION

CNFC SECTION 3.3.5 LEVEL 3.

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.

В

LEVEL 3.

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

NFPA CODE 30B

THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO **SARA 313 INFORMATION**

THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND

40 CFR PART 372: .

CHEMICAL NAME: . CAS #: PIPERONYL BUTOXIDE. *51-03-6

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 CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER

REPRODUCTIVE HARM.

CAS #: CHEMICAL NAME: .

BENZENE (TRACE AMOUNT IN HEPTANE). *71-43-2

ALL COMPONENT OF THIS PRODUCT ARE LISTED ON THE TSCA TSCA (Toxic Substances Control Act)

INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT

FROM LISTING.

97-98. VOC (w/w%)

16. PREPARATION DATE OF MATERIAL SAFETY DATA SHEET

PREPARED BY KUUS INC.

TELEPHONE NUMBER OF PREPARER 1-800-267-0455

DATE PREPARED April 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.