MATERIAL SAFETY DATA SHEET

KUUS INC. (Division of KNOCKDOWN)

KNOCKDOWN BED BUG KILLER

Effective Date: March 1, 2010

1. MATERIAL IDENTIFICATION AND USE

MANUFACTURER'S NAME KUUS INC. (Division of KNOCKDOWN)

MANUFACTURER'S ADDRESS 450 TAPSCOTT ROAD, UNIT 5 & 6A

SCARBOROUGH, ONTARIO M1B 1Y4

MANUFACTURER'S TELEPHONE NO. (416) 298-7724

SUPPLIER IDENTIFIER AS MANUFACTURER

SUPPLIER'S ADDRESS AS MANUFACTURER

SUPPLIER'S TELEPHONE NO. AS MANUFACTURER

PRODUCT IDENTIFIER KNOCKDOWN BED BUG KILLER

FORMULA: COMMERCIAL

PRODUCT CODE KD242C

PRODUCT USE INSECTICIDE

2. HAZARDOUS INDGREDIENTS OF MATERIALS

INGREDIENTS	PERCENTAGE (%)	CAS NUMBER:	LD50(species/route)	LD50(species/route)
Odourless Mineral Spirits	40-70	64742-48-9	5000mg/kg (oral-rat)	5500mg/m3 (4h)
Pyrethrins	0.60	8003-34-7	1680mg/kg (oral-rat)	Not Available
Piperonyl Butoxide	4.210	51-03-6	4.6g/kg (oral-rat)	>5.9mg/l
Isobutane	10-30	75-28-5	Not Applicable	142500ppm/4h (inhal-rat)
Propane	3-7	74-98-6	Not Applicable	Not Available

3. PHYSICAL DATA FOR PRODUCT

PHYSICAL STATE AEROSOL

ODOUR AND APPEARANCE CLEAR AMBER LIQUID. INSECTICIDE.

VAPOUR PRESSURE (mm Hg) 50-60 at 20 ℃

SPECIFIC GRAVITY 0.56-0.60

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

VAPOUR DENSITY (AIR=1): GREATER THAN 1

% VOLATILE (BY WEIGHT): 96-97

BOILING POINT 150-210 ℃

SOLUBILITY IN WATER (20 °C) NEGLIGIBLE

4. FIRE AND EXPLOSION HAZARD OF PRODUCT

EXTINGUISHING MEDIA WATER, CARBON DIOXIDE,

DRY CHEMICAL, FOAM.

FLASHPOINT 54℃

UPPER EXPLOSION LIMIT (% BY VOL) 9.5.

LOWER EXPLOSION LIMIT (% BY VOL) 1.2

SPECIAL PROCEDURES FULL PROTECTIVE EQUIPMENT INCLUDING SELF

CONTAINED BREATHING APPARTATUS

SHOULD BE WORN.

5. REACTIVITY DATA

CHEMICAL STABILITY STABLE

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

INCOMPATIBLE MATERIALS STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS HYDROCARBON FUMES AND SMOKE.

CARBON MONOXIDE WHERE COMBUSTION IS

INCOMPLETE.

6. TOXICOLOGICAL PROPERTIES OF PRODUCT

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

MAY IRRITATE THE EYES.

7. TOXICOLOGICAL PROPERTIES OF PRODUCT (CONT'D)

LONG TERM EFFECTS OF EXPOSURE

EFFECTS OF CHRONIC EXPOSURE

TARGET ORGANS

SOLVENTS MAY CAUSE DEFATTING DERMATITIS

SPECIAL HEALTH EFFECTS

CARCINOGINICITY NO

8. PREVENTIVE MEASURES

CONDITIONS UNDER WHICH PPE REQ'D NORMAL WORK CONDITIONS

EYE PROTECTION REQUIREMENTS WEAR SAFETY GLASSES

GLOVE REQUIREMENTS NOT NORMALLY REQUIRED

CLOTHING REQUIREMENTS NOT NORMALLY REQUIRED

RESPIRATOR REQUIREMENTS NOT NORMALLY REQUIRED

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℃.

9. FIRST AID MEASURES

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.

10. FIRST AID MEASURES

EYE FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15

MINUTES AND GET MEDICAL ATTENTION.

11. REGULATORY INFORMATION

TDG WHMIS INFORMATION

SHIPPING NAME NOT REGULATED NOT CONTROLLED P.I.N. NUMBER NOT REGULATED

TDG CLASS NOT REGULATED PACKAGING GROUP NOT REGULATED

12. PREPARATION DATE OF MATERIAL SAFETY DATE SHEET

PREPARED BY KUUS INC. (Division of KNOCKDOWN)

TELEPHONE NUMBER OF PREPARER (416) 298-7724

DATE PREPARED March 1, 2010

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