

MATERIAL SAFETY DATA SHEET

KUUS INC. (Division of KNOCKDOWN)

KNOCKDOWN X-MAX FARM AND LIVESTOCK 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 X-MAX FARM AND LIVESTOCK KILLER FORMULA: COMMERCIAL
PRODUCT CODE	KD241C
PRODUCT USE	INSECTICIDE

2. HAZARDOUS INGREDIENTS 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°C
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°C
SOLUBILITY IN WATER (20°C)	NEGLIGIBLE

4. FIRE AND EXPLOSION HAZARD OF PRODUCT

EXTINGUISHING MEDIA	WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.
FLASHPOINT	54°C
UPPER EXPLOSION LIMIT (% BY VOL)	9.5.
LOWER EXPLOSION LIMIT (% BY VOL)	1.2
SPECIAL PROCEDURES	FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARATUS 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

CARCINOGENICITY 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°C.

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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