MATERIAL SAFETY DATA SHEET
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PAGE 1: K+ NEEM INSECTICIDE – FUNGICIDE

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: K+ Neem Insecticide - Fungicide
EPA #: 70191 - 1
COMMON NAME OF ACTIVE INGREDIENT: Potassium salts of $C_{12} - C_{18}$ fatty acids
CHEMICAL NAME OF ACTIVE INGREDIENT: Potassium salts of $C_{12} - C_{18}$ saturated & unsaturated aliphatic carboxylic acids
MOLECULAR FORMULA: Trade Secret
CAS NUMBERS: Trade Secret
PERCENT: 25 %
DESCRIPTION: An alcohol free insecticidal soap derived from cold pressed neem seed oil

SECTION 2: HAZARDOUS COMPONENTS

None of the ingredients in this product are listed as carcinogenic by NTP, IARC or OSHA
This formulation does not contain any VOC (volatile organic compounds)

SECTION 3: PHYSICAL DATA

APPEARANCE: Dark brown liquid
SOLUBLE IN WATER: Yes
BOILING POINT: 98^{o} C @ 760 mmHg
MELTING POINT: < 4^{o} C
VAPOR PRESSURE: Not applicable
SPECIFIC GRAVITY: 1.04
PH: 9.2 – 9.5 @ 20 – 25 ^{o} C

SECTION 4: FIRE AND EXPLOSION DATA

FLASH POINT: > 251^{o} C
METHOD: Closed cup
EXTINGUISHING MEDIA: Not applicable
SPECIAL FIRE FIGHTING PROCEDURES: None required
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION 5: REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCT: None likely
INCOMPATIBILITY: Concentrated mineral supplements and oxidizing agents
STABILITY: Stable under normal conditions
HAZRDOUS POLYMERIZATION: None likely

SECTION 6: HEALTH HAZARDS

PRIMARY ROUTE OF ENTRY: Dermal
EXPOSURE LIMIT: No OSHA TLV
EYE CONTACT: Severe irritant avoid contact.
CORROSIVITY: Corrosive
EFFECTS OF OVER EXPOSURE: Irritation to skin & mucous membranes
SENSITIZATION: Not a sensitizer
TOXICITY: None of the components of this product are listed as carcinogenic (NTP, OSHA)

PAGE 2: K+ Neem Insecticide - Fungicide

ACUTE STUDIES:
Oral LD_{50} (Rat) > 16,900 mg / kg (low toxicity)
Dermal LD_{50} (Rabbit) > 5000 mg / kg (low toxicity)
Inhalation: Not an acute inhalation hazard
Eye Irritation (Rabbit) Corneal injury (opacity) reversed by day 28 in unrinsed eyes, 7 days rinsed

SECTION 7: FIRST AID PROCEDURES

SKIN: Wash hands after use. If irritation occurs / persists consult with physician.
EYES: Flush eyes with cool water and consult physician.
INGESTION: Give demulcent (milk)
INHALATION: Remove to fresh air consult physician if problem occurs.

SECTION 8: PERSONAL PROTECTION / SPILL & DISPOSAL PROCEDURES

EYES: Goggles should be worn if possibility of splashing exists.
GLOVES: Waterproof gloves recommended for repeated or prolonged exposure.
RESPIRATORY: Ensure good ventilation respiratory protection should not be necessary.
CLOTHING: Wear pants, shirt, shoes and socks
IF SPILLED: Contain leaking fluid with absorbent material then place in container for disposal.
DISPOSAL METHOD: Spills, rinsates & leftover pesticides must be disposed of according to federal, state and local procedures

SECTION 9: SPECIAL PRECAUTIONS

Keep in original container, tightly closed in a safe place.
Empty container completely, triple rinse and dispose of safely
Wash contamination from skin & eyes immediately
Remove heavily contaminated clothing and wash
Wash hands and exposed skin before eating, drinking and smoking
Do not apply to lakes, ponds or streams
Do not contaminate waterways by cleaning of equipment

SECTION 10: SHIPPING REGULATIONS

FREIGHT CLASSIFICATION: Insecticides or fungicides other than poisons (CLASS 60)
DOT LABELS REQUIRED: None
SARA TITLE III HAZARD CLASSIFICATION:
Immediate (acute) health: No
Delayed (chronic) health: No
Fire: No
Sudden Release of Pressure: No
Reactive: No
NATIONAL FIRE PROTECTION ASSOCIATION RATING:
Health 1
Flammability 0
Reactivity 0

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