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MATERIAL SAFETY DATA SHEET

PRODUCT: Rose Doctor

SECTION 1 - PRODUCT INFORMATION

P.C.P. Act Registration No.: 10565

Code: 7 50160 0

Chemical Name: Carbaryl: 1-Naphthyl methylcarbamate

Tri-basic Copper Sulphate

Malathion: O,O-dimethyl-S-(1,2(di(ethoxycarbonyl)ethyl) phosphorodithioate.

Sulphur

Synonyms: Not Listed.

Chemical Family: Carbamate, Inorganic and Organophosphorus

Product Use: Domestic Insecticide and Fungicide

TDG Classification: Not Regulated by Road/Rail/Marine Transport

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	WEIGHT %	CAS REG #	LD50 (mg/Kg)	T.W.A. - T.L.V.
Carbaryl	5.0	63-25-2	Oral,rat 1947 Dermal,rabbit >2000	2.5 mg/L
Tri-basic Copper Sulphate	5.0	1344-73-6	Oral,rat 1000 Dermal,rabbit >8000	-
Malathion	2.0	121-75-5	Oral,rat 1375 Dermal,rabbit >2000	LC50 1.6 mg/L
Sulphur	20.9	7704-34-9	-	-
Calculated LD 50 for mixture			11,100	

SECTION 3 - PHYSICAL DATA

Physical State: Solid

Specific Gravity: Not Applicable

Boiling Point: Not Applicable

Vapour Pressure: Not Applicable

% Volatiles: Not Applicable

Solubility in Water: Insoluble

Appearance\Odour: Tan powder with low odour.

pH: No Data

Freezing/Melting Point: Not Applicable

Vapour Density: Not Applicable

Evaporation Rate: Not Applicable

SECTION 4 - FIRE AND EXPLOSION

Flash Point: Not Applicable

Lower Explosion Limit %: Not Applicable

Fire Extinguishing Media: Foam, Dry Chemical, Carbon Dioxide, Water Fog

Fire Fighting Procedures: Wear self-contained Breathing Apparatus and impervious clothing. Minimize amount of water used and contain the run-off by diking.

Other Fire or Explosion Hazards: This product contains sulphur, therefore is a flammable solid.

Autoignition Temperature: No Data

Upper Explosion Limit %: Not Applicable

SECTION 5 - REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Temperatures above 100 °C, Thermal decomposition will occur.

Incompatibility (Materials to Avoid): Strong acids, bases and oxidizers

Hazardous Decomposition Products: Thermal decomposition products include sulphur oxides, carbon oxides, nitrogen oxides, dimethylsulfide and phosphoropentoxide

SECTION 6 - HEALTH HAZARD DATA

Acute Effects of Overexposure: May cause temporary irritation to the eyes, nose, throat and respiratory tract. May cause headache, nausea, vomiting, abdominal cramps, weakness, blurred vision, pin-point pupils, tightness in chest, muscle spasms, and coma.

Effects of Chronic Exposure: Long term exposure may cause kidney damage.

Other Health Effects: Malathion and Carbaryl are both cholinesterase inhibitors. The antidote is atropine.

SECTION 7 - FIRST AID PROCEDURES

Inhalation: Move victim to fresh air. Give CPR if there is NO breathing AND NO pulse. Obtain medical advice if symptoms persist.

Skin Contact: Flush skin with running water and thoroughly wash with soap and water. If irritation persists seek medical attention.

Ingestion: Give 1 to 2 glasses (200 to 500 ml) of water to dilute material. If symptoms do persist, seek MEDICAL ADVICE. Do not induce vomiting or give anything by mouth to an unconscious person. OBTAIN MEDICAL ADVICE.

Eye Contact: Flush eyes with running water for 20 minutes. Hold eyelids open during flushing. If irritation persists seek Medical Attention.

SECTION 8 - PREVENTIVE MEASURES

Respiratory Protection: Prolong usage requires a NIOSH/MSHA approved respirator

Eye Protection: Safety glasses.

Skin Protection: Chemical resistant gloves

Other Personal Protective Equipment: Coveralls

Engineering Controls: Local exhaust or ventilation.

Handling Procedures and Equipment: Avoid breathing dust, contact with eyes, skin and clothing. Wash thoroughly after use.

Storage Requirements: Store in cool, dry, ventilated area. Keep out of reach of children and pets.

Storage Temperature: Min: none °C Max: 40 °C

SECTION 9 - ENVIRONMENTAL PROTECTION DATA

Spill and Leak Procedures: Stop leak and contain spill. Sweep up spilled material and shovel in waste container for disposal. Clean area with detergent and water, absorb wash and place in waste container. Remove any contaminated soil for proper disposal.

Waste Disposal: Dispose of empty container in household garbage. Dispose of waste product in accordance with Local, Provincial or Federal government regulations.

Environmental Effects: Do not contaminate local water supplies or environments.

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