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Page 1 of 5

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

PRODUCT NAME: Flower Dust

OTHER NAME: None allocated
MANUFACTURERS CODE: 07751 (500g)
PROPER SHIPPING NAME (ADG Code): None allocated
UN NUMBER: None allocated
DANGEROUS GOODS CLASS: None allocated
SUBSIDIARY-RISK: None allocated
PACKING GROUP: None allocated
HAZCHEM CODE: None allocated
POISONS SCHEDULE: 5 Caution
USE: To control aphids, caterpillars, thrips, mites, leaf rust, powdery mildew and black spot.

PHYSICAL DESCRIPTION / PROPERTIES

APPEARANCE: Light yellow dust
MELTING POINT: Not applicable
BOILING POINT: Not applicable
VAPOUR PRESSURE: Not applicable
DENSITY: 0.75kg/L
FLASH POINT: Not applicable
FLAMMABILITY LIMITS: Not applicable
SOLUBILITY IN WATER: Not soluble
CORROSIVENESS: Not corrosive
OTHER PROPERTIES: Not applicable

INGREDIENTS

| CHEMICAL NAME | CAS.NO. | PROPORTION |
|---------------|-----------|------------|
| Maldison | 121-75-5 | 10g/kg |
| Carbaryl | 63-25-2 | 19g/kg |
| Mancozeb | 8018-01-7 | 40g/kg |
| Sulphur | 7704-34-9 | 300g/kg |

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

HAZARD CLASSIFICATION (In accordance with criteria of Worksafe Australia): Xi - Irritant

RISK PHRASES: R43 – May cause sensitisation by skin contact

SAFETY PHRASES: S24/25 – After contact with skin and eyes.
S46 – If swallowed, contact a doctor or Poisons Information Centre immediately.
National Poisons Information Centre 131 126

GENERAL:

No adverse health effects are expected when the product is used in accordance with label directions. If mishandled (excessive exposure) may cause organophosphorus cholinesterase inhibition. Poisoning symptoms include headaches, dizziness, nausea, diarrhoea, incoordination, muscle twitching, tremors, abdominal cramps, tightness in chest, sweating, blurred vision, salivation, excessive urination and convulsions.

ACUTE

SWALLOWED:

The acute oral toxicity is Low. Oral LD50 (rat) 850mg/kg (Carbaryl).
Oral LD50 (rat) 5000mg/kg (Mancozeb).
Oral LD50 (rat) 2800mg/kg (Maldison).

For product Oral LD50 (rat) >40000mg/kg

EYE:

Moderate eye irritant.

SKIN:

The acute dermal toxicity is low, however repeated exposure may result in absorption of harmful amounts. Repeated skin contact may cause allergic reactions.

Dermal LD50 (rat) 4000mg/kg (carbaryl).
Dermal LD50 (rabbit) 5000mg/kg (Mancozeb).
Dermal LD50 (rabbit) 4100mg/kg (Malathion).

For product LD50 > 200000mg/kg.

INHALED:

The acute inhalation toxicity is moderate. Excessive exposure to dust may be harmful. Prolonged exposure to the dust may cause eye and respiratory irritation, dizziness and headaches.

Inhalation LD50 (rat) = Not available mg/m³ (4 hours) (carbaryl).

Inhalation LD50 (rat) = 5.2 mg/m³ (4 hours) (maldison).

Inhalation LD50 (rat) = Not available mg/m³ (4 hours) (Mancozeb).

CHRONIC:

Carbaryl, Maldison and Mancozeb do not cause generic change or accumulate in the body.
Avoid prolonged or repeated skin contact.

FIRST AID

GENERAL:

In every case of suspected poisoning contact a doctor or a Poisons Information Centre immediately.

SWALLOWED:

Seek medical attention immediately. Induce vomiting preferably using Ipecac Syrup APF.

NOTE: Do not give fluids/tablets or induce vomiting if patient is unconscious or convulsing.

EYE:

Hold eyelids open and flush eyes with water for at least fifteen minutes. Seek medical attention if symptoms occur.

SKIN:

Immediately remove contaminated clothing and wash skin thoroughly with soap and water for at least fifteen minutes. If symptoms of poisoning occur, seek medical attention immediately.

INHALED:

Immediately remove patient to fresh air. If difficulty in breathing is experienced, give oxygen and artificial respiration if necessary. Seek medical attention if symptoms occur.

FIRST AID FACILITIES:

Soap, water, Ipecac Syrup APF.

ADVICE TO DOCTOR:

Carbaryl and Maldison are cholinesterase inhibitor. Preferred antidote: atropine by injection or atrovent/ipratropium by airway puff.

Mancozeb has a low toxicity, patient should drink plenty of water. Do not give water to unconscious or convulsing patient.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS:

Worksafe Occupational Exposure Standard (TWA – Time Weighted Average)

Carbaryl 5mg/m³

Maldison 10mg/m³

Time Weighted Average (TWA) means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five day working week.

ENGINEERING CONTROLS:

Use only in a well ventilated area (external use only).

PERSONAL PROTECTION:

When handling the product use gloves. A dust mask and eye protection is also recommended. Remove contaminated clothing immediately and wash thoroughly. Wash hands, face and arms immediately after use and before eating and drinking.

FLAMMABILITY:

Product is not flammable

SAFE HANDLING INFORMATION

STORAGE

Store product in original container only in a locked, well ventilated area, out of direct sunlight and out of the reach of children. Keep away from foodstuffs.

TRANSPORT

Product is not classified as a dangerous good in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SPILLAGE

Wear appropriate clothing while cleaning up spill (see Personal Protection). Prevent entry into drainage systems, waterways, rivers, etc. Sweep up the material. If product spilt indoors, wash contaminated surfaces with a mild bleach solution (sodium hypochlorite).

DISPOSAL

Disposal of contaminated material must be done in accordance with State and/or Local regulations. Dispose of empty container by wrapping in paper bag, placing in a plastic bag and putting in garbage. Do not burn empty containers or product. Do not allow chemical containers, to contaminate drains, sewers, streams, ponds or any waterway.

FIRE/EXPLOSION HAZARD

Not a fire or explosion hazard

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of Nitrogen

FIRE FIGHTING EQUIPMENT:

Foam, carbon dioxide (CO₂), or dry chemical extinguishers may be used. Run-off must be contained.

OTHER INFORMATION**ECOTOXICITY DATA:**

Maldison, Carbaryl and Mancozeb have low toxicity to birds and fish these compounds also have a low toxic to pets and livestock.

Maldison, Carbaryl and Mancozeb do not bioaccumulate in animal systems.

ENVIRONMENTAL FATE:

In soil, Maldison, Mancozeb and Carbaryl readily degraded by hydrolysis and microbial action. The half life of these compounds range between one and twenty days, depending on climatic conditions and soil types. Biochemical degradation is highly accelerated in alkaline soils. These compounds will degrade rapidly when exposed to direct sunlight.

CONTACT POINT

TITLE: Technical Department

TELEPHONE NUMBER: (08) 9337 4933

AUTHORISED:

DATE:

NOTICE:

This Material Safety Data Sheet has been developed according to the Worksafe Australia/NOHSC Codes of Practice.

The information contained herein is given in good faith however and is considered to be accurate at the specified issue date. No warranty expressed or implied is made to the accuracy or completeness of the data and information contained herein.

No person, other than an authorised representative of David Gray & Company Pty Ltd, has the authority to make any alterations to this MSDS.

Contact David Gray & Co Pty Limited for further product information on (08) 9337 4933 during normal business hours.