

ZIRAM WG

MATERIAL SAFETY DATA SHEET



1. IDENTIFICATION OF THE SUPPLIER

Supplier Details:

Name: Melpat International Pty Ltd
Address: 4/22 Parry Ave, Bateman WA 6150
Telephone: (08) 9312 3200
Fax: (08) 9312 3233
E-mail: melpat@melpat.com.au
Website: <http://www.melpat.com.au>

2. IDENTIFICATION OF THE PRODUCT:

Product Name: Melpat Ziram WG

Active Ingredient: Ziram: 760g/kg

Use: For the control of black spot and other fungal diseases of Celery, Grapes, Pome & Stone Fruits & Roses - as per the Directions for Use Leaflet

Physical Appearance: A fine, dry, wettable granule formulation

Solubility: Insoluble in water

Product Type: Group M3 Fungicide

UN Number: UN3077

Hazardous Category: Harmful Irritant

Hazchem Code: 9

Packing Group: III

Sub Risk Class: None allocated

Poison Schedule: S6

3. HAZARDS IDENTIFICATION:

Hazard Classification	Classified as hazardous HAZARDOUS SUBSTANCE NON-DANGEROUS GOODS Hazard Classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods code.
Risk Phrase(s):	Classified as hazardous R22 Harmful if swallowed. R26 Very toxic by inhalation. R37 Irritating to respiratory system. R41 Risk of serious damage to eyes. R43 May cause sensitization by skin contact. R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
Safety Phrase(s):	S13 Keep away from food, drink and animal feeding stuffs. S2 Keep out of reach of children. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S51 Use only in well ventilated areas.
Other Information	POISON Schedule S6 KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING Very Toxic, Irritant

4. COMPOSITION / INFORMATION ON INGREDIENTS:

Chemical Characteristics:	Solid		
Ingredients:	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Ziram	137-30-4	760 g/kg
Substance Chemical Family:	Dithiocarbamate		

5. FIRST AID MEASURES:

Inhalation:	Remove victim from exposure - avoid becoming a casualty. If breathing is difficult, oxygen may be given by a trained person. Obtain medical assistance.
Ingestion:	Give a glass of water. Rinse mouth thoroughly with water. Seek medical advice immediately.
Skin:	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

	If irritation persists, seek medical advice.
Eyes:	In in eyes, hold eyelids open and wash with copious amounts of water – for at least 15 minutes. If irritation persists, consult a doctor.
First aid facilities:	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor:	Treat symptomatically. Avoid giving alcohol – may cause vomiting and shock.

6. FIRE FIGHTING MEASURES:

Suitable Extinguishing Media:	Water fog, foam, carbon dioxide or dry chemical.
Hazards from combustion products:	If involved in a fire, it will emit oxides of sulphur, oxides of zinc and possibly oxides of nitrogen. Combustible liquid at high temperatures.
Special Protective Equipment for Fire Fighters:	Breathable air apparatus should be worn when fighting a fire in which ziram is involved.
Emergency Action in case of fire:	If exposed to fire, keep container cool by spraying with water. If possible, remove other containers from the area of fire.
Other Information:	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES. Large accumulations of dust and fines associated with industrial processing of bulk material may be a dust explosion hazard.

7. ACCIDENTAL RELEASE MEASURES:

Spills and Disposal:	Pick up with a shovel and broom or vacuuming without raising dust. Collect in sealed open-top containers for disposal. On-site disposal of concentrate is not acceptable. Do not flush with water.
Personal Protection:	For appropriate personal protective equipment (PPE), refer Section 9.
Environmental Precautions:	Prevent from entering drains, waterways or sewer.

8. HANDLING AND STORAGE:

Precautions for Safe Handling:	Avoid generating dusts while handling the product and mixing. If dusts are generated, it is advisable to wear a dust mask, refer Section 9.
Conditions for Safe Storage:	Store in the closed, original container in a dry, well-ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. Do not store in the same area as acids. Always read the label before use.

9. EXPOSURE CONTROLS / PERSONAL PROTECTION:

National Exposure Standards:	No exposure standard has been established for this product.
Other Exposure Information:	ACGIH has set the following exposure standards for Ziram TLV TWA 0.5mg/m ³ ; STEL-.
Engineering Controls:	Handle in well ventilated areas, generally natural ventilation is adequate. Avoid generating and inhaling dusts.
Respiratory Protection:	If dusts are present, wear a class P3 dust mask.
Eye Protection:	Wear chemical goggles.
Personal Protective Equipment:	When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.
Hygiene Measures:	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

10. PHYSICAL AND CHEMICAL PROPERTIES:

Form:	Solid
Appearance:	Off white granules
Solubility in Water:	Disperses in water. Solubility is low.

II. STABILITY AND REACTIVITY:

Chemical Stability:	Stable under normal conditions.
Incompatible Materials:	The addition of a strong acid will cause release of carbon disulphide vapour. Carbon disulphide is a volatile liquid, toxic. TLC / TWA 31 mg/m ³ , auto ignition temperature -100°C.
Hazardous Reactions:	Keep away from strong oxidizing agents.
Hazardous Polymerisation:	Hazardous polymerisation is not possible.

12. TOXICOLOGICAL INFORMATION:

Inhalation:	The concentrate is considered harmful by inhalation by Worksafe Australia. When applying the product as a spray, avoid breathing in spray mist.
Ingestion:	Ingestion of the solid is not a likely route of exposure. Possible symptoms of exposure of the concentrate include: headache, arrhythmia, shortness of breath and nausea. Consumption of alcohol increases the toxic effects.
Skin:	Prolonged contact with the concentrate may cause irritation. Prolonged or repeated exposure may cause skin sensitisation.
Eyes:	The concentrate will cause irritation to the eyes and possible damage. If product comes in contact with the eyes, wash off immediately (refer Section 5)
Chronic Effects:	Based on available data, repeated exposure are not anticipated to cause additional significant adverse effects.
Acute Toxicity – Oral:	LD50 (rat) >478mg/kg
Acute Toxicity – Dermal:	LD50 (rabbit) >2000mg/kg
Acute Toxicity – Inhalation:	LC50 (rat)(4hr) 0.07mg/l
Eye Irritation:	Severe eye irritant.
Skin Irritation:	Moderate skin irritant.
Skin Sensitisation:	Prolonged and repeated skin contact may result in skin sensitisation.
Other Information:	The Australian Acceptable Daily Intake (ADI) for ziram for a human is 0.01 mg/kg/day, set for the public for daily, lifetime

exposure. This is based on the NOEL of 1.0mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', December 2008).

13. ECOLOGICAL INFORMATION:

Persistence / Degradability:	Half life in soil is typically 3 days.
Mobility:	Rapid degradation in soil prevents significant downward movement under normal conditions.
Known Harmful Effects on the Environment:	The product is a marine pollutant for sea transport.
Acute Toxicity – Fish:	LC50 (96hr) for rainbow trout is 1.9mg/l
Acute Toxicity – Daphnia:	LC50 (48hr) for daphnia is 0.048 mg/l
Acute Toxicity – Other organisms:	Moderately toxic to birds. LD50 for (bobwhite quail) is 97mg/kg Bees: not toxic to bees – LD50 >100 µg/bee.

14. DISPOSAL CONSIDERATIONS:

Product Disposal:	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
Container Disposal:	Single rinse before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500mm below the surface in a surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

15. TRANSPORT INFORMATION:

Storage and Transport:	Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01. For bulk shipments as Class 9, use UN3077, HazChem code 2Z.
UN Number (Sea Transport):	3077
IMO Class / Packaging Group:	Class 9 Packaging Group III
IMO Marine Pollutant:	Marine Pollutant
IMO Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains ziram)

16. REGULATORY INFORMATION:

Poisons Schedule:	S6
Packaging & Labelling:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Hazard Category:	Very Toxic, Irritant

For further details, please contact Melpat International Pty Ltd:

Tel: (08) 9312 3200
 Fax: (08) 9312 3233
 Mobile: 0402 310 854
 E-mail: melpat@melpat.com.au
 Address: 4/22 Parry Ave
 Bateman, WA 6150



June 2017