

SAFETY DATA SHEET

MIZAR GRANUFLO®

Date of Issue: 9th April 2021

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Ziram

Recommended use: Fungicide

Supplier: UPL New Zealand Limited PO Box 51584, Pakuranga

Auckland

Phone 0800 100 325 www.upl-ltd.com/nz

Emergency telephone number: 0800 CHEM CALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION



Hazard Classification: 6.1D, 6.4A, 6.5B, 6.9B

9.1A, 9.3C

Required identification Details: WARNING

Harmful if swallowed.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause damage to the liver, central nervous system, and thyroid

from repeated oral exposure at high doses.

Very toxic to aquatic organisms. Harmful to terrestrial vertebrates.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

 Common name
 CAS No
 %

 Ziram
 137-30-4
 75

Issued by UPL New Zealand Limited Page 1 of 5 Product: Mizar Granuflo (ES577)

4. FIRST-AID MEASURES

Inhalation:

Description of necessary first aid measures:

General: If symptoms persist seek medical advice. Show this Safety Data

sheet to medical practitioner.

Effects and symptoms Symptoms of over exposure include dizziness, confusion,

First-aid measures drowsiness, lethargy, ataxia, headaches, or coma; abdominal pain,

nausea, vomiting, diarrhoea; muscle weakness and ascending

paralysis; respiratory paralysis; cough; skin rash and eye irritation. May also induce alcohol intolerance. Remove from exposure. Remove to fresh air.

Apply artificial respiration if necessary. Get medical help if breathing

difficulty persists.

Ingestion: Give a glass or two of water. Do not induce vomiting. Treat

symptomatically. Get medical help. Never give anything by mouth to

an unconscious person.

May cause skin irritation. Remove contaminated clothing. Wash with Skin contact:

soap and water. If irritation persists see a doctor.

Eye contact: May cause eye irritation. Immediately flush with water for 15 minutes.

If irritation persists see a doctor.

Notes to a physician: There is no specific antidote. Treatment should be symptomatic after

> decontamination. Possible mucous damage may contraindicate gastric lavage. After poisoning with Ziram, alcohol should be

avoided for at least 10 days.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Alcohol resistant foam, water spray, Carbon Dioxide, dry chemical.

DO NOT USE HIGH VOLUME WATER JET.

Hazardous thermal

(de)composition products: Heating to decomposition generates oxides of carbon, nitrogen and

sulphur.

Dust may form explosive mixture in air. Heating or fire can release toxic gas.

HAZCHEM Code:

Protection of fire-fighters: Wear full emergency equipment and self-contained breathing

apparatus. Fight fire from upwind.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin, eyes and clothing.

Wear long sleeved shirt, long pants, waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash

hands and face before meals and after work.

Evacuate personnel to safe areas. Keep people away from and

upwind of spill/leak.

Environmental precautions: Remove immediately adhering matter. Contain spill, do not allow material to enter drains, sewers or bodies of water.

Keep unprotected persons and animals out of the area.

Methods for cleaning up: Keep dry or when wet contain run off. Shovel or sweep up dry

material and bury in an approved landfill.

Do not flush with water.

If in a liquid state, soak up with saw dust or other inert absorbent material and dispose of in an approved land fill or chemical waste

container

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7. HANDLING AND STORAGE

Handling: Keep dry and out of reach of children.

Use in accordance with local regulations. Ensure there is appropriate

exhaust ventilation.

Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Do not breathe vapours/dust.

Use only in area equipped with a safety shower.

Storage: Store in original container tightly closed in a locked, dry, well

ventilated place away from feed, seeds and foodstuffs.

Keep away from sparks, heat and flames. Use spark-proof tools and

explosion- proof equipment.

Specific use(s): Dispose of as special waste in compliance with local and

National regulations.

Packaging materials:Multiwall paper bags, 10 kg **Incompatible products:**Do not store near acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Exposure Standards: Not set. **Exposure Standards outside the workplace:** Not set.

Engineering measures

Exposure control measures: Local exhaust.

Ventilate all transport vehicles prior to unloading.

Ensure stores are adequately ventilated.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system: Mizar Granuflo is a Granular formulation that overcomes the normal

hazards associated with dust.

A full face shield when mixing is adequate protection in normal use. When dust is generated, a properly fitted and approved TC-21C dust/mist filtering respirator or any approved N,R, P, or SHE filter is

required. Equipment is accordance with local and national

regulations.

Skin and body:Long sleeved shirt and pants worn outside boots. Use protective

material according to the amount and concentration of the

substance stored.

Hands: Protect hands with waterproof gloves made from materials such as

polyethylene or polyvinyl chloride.

Eyes: Full face shield and tight fitting safety goggles when mixing and

applying.

General hygiene: Wash hands and exposed skin immediately after use. Do not

smoke, eat or drink when using.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colour, Odour. Beige granule with a sweet smell. pH: 7.1 (10g/L aqueous suspension)

Vapour Pressure: Not applicable – Very low

Boiling Point: Not applicable.

Flash Point:

Freezing/melting point: Not available.

Solubility: Disperses in water. Ziram is practically insoluble.

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Approx 0.60 g/ml Density:

Information for flammable material: Not applicable. Not auto-inflammable.

Auto-ignition Temperature:

Viscosity:

Octanol/water partition coefficient: Log Pow = 1.086**Explosion properties:** Not explosive. Not an oxidizer. Oxidation properties:

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Conditions to avoid: Excessive Heat. Prevent dust formation. Hygroscopic – avoid humid air and water

Ziram decomposes on heating and in contact with acids. It is Materials to avoid:

244 °C

incompatible with iron, lime, sulphur, copper and mercury.

Hazardous Decomposition

Products: Combustible material. Burning produces irritant fumes.

Hazardous polymerization: None.

11. TOXICOLOGICAL INFORMATION

Acute toxicity - Oral: Acute Oral LD50 = 478 mg/kg (Rat)

Acute Dermal LD50 > 5,000 mg/kg (Rabbit) **Acute toxicity - Dermal:**

Acute toxicity - Inhalation: LC50 =0.13 mg/litre 4hr (a.i) (Rat). Respirable ziram is

highly toxic by inhalation. However, this is a granular solid. During intended and foreseen applications, no respirable

aerosol is formed.

Skin irritation: Not irritating to the skin (Rabbit).

Eye irritation: Severe eye irritation. Highly irritating to eyes and mucous

membranes (Rabbit).

Sensitization: The results of a test on guinea pigs showed this substance to

be a weak skin sensitizer.

Chronic toxicity

Carcinogenicity: Did not show carcinogenic effects in animal experiments.

Mutagenicity: Did not show mutagenic effects in animal experiments.

Reproduction toxicity: Did not show teratogenic effects in animal experiments. Other information:

May cause cardiac arrhythmia, headaches, eczema,

dermatitis, nausea, shortness of breath. More severe effects if alcohol is consumed.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Fish LC_{50} (96h)= 0.364 mg/L (Acute)

NOEC = 0.189 mg/L (Chronic)

Daphnia Magna EC_{50} (48h)= 0.131 mg/L

Algae EC₅₀ (120h)= 0.093 mg/L (Pseudokirchneriella subcapitata)

Mobility Minimal

Persistence/degradability Soil: Degradation half-life after <2days.

Bioaccumulative potential: Unlikely

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13. DISPOSAL CONSIDERATIONS

Methods of disposal: Ensure that any unwanted material is used according to label.

Dispose of in accordance with local regulations. Waste codes should be assigned by the user based on the application for which the

product was used.

Classified as hazardous waste.

Container disposal: Ensure that container is completely empty. Bury in

andfill

14. TRANSPORT INFORMATION - International transport regulations

UN number: UN3077

Class or Division: 9
Subsidiary Class: NA
Packing Group: III
Marine Pollutant: Yes

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

(Contains 75% ziram)

Classification Code: EPG 47 Dangerous Goods – initial Emergency Response

Guide. N/A

INTERNATIONAL AIR

TRANSPORT ASSOCIATION

(IATA):

15. REGULATORY INFORMATION

ACVM Registered Number: P004176
HSNO Approval Code: HSR000473

16. OTHER INFORMATION

Additional information: Original Issue Date: 11 April 2011

Revision Date: 9 April 2021

Replaces: ES398

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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