

MATERIAL SAFETY DATA SHEET

M.S.D.S. Revised Nov 2016 Issue No. 5

IDENTIFICATION

PRODUCT NAME: **SOIL-ZYME** **UN NUMBER:** None

Description: Liquid enzyme preparation

Chemical Characterisation of Active Component: Enzyme protein
Classification of Preparation: R42, R36
Exposure limit: TLV: Not established

**DANGEROUS GOODS or
SUBSIDIARY RISK CLASS:** None
HAZCHEM CODE: None
POISONS SCHEDULE: None
EINECS NUMBER: 232-565-6

SOIL-ZYME is NOT classified as hazardous although proper handling practices should always be used to avoid spillage, particularly when handling it in its concentrated form. ie handle carefully and wear personal protective clothing such as gloves, eye protection and shoes.

MANUFACTURER: International Rehabilitation and Soil Stabilization Services, Perth,
Western Australia Ph +61 (0)412002538 or +61 (08) 93774559

USE(S): Turfgrass and agricultural soil renovation
Pond and lake water purification
Surfactant

PHYSICAL PROPERTIES:

Appearance Light tan viscous aqueous solution
Specific gravity: 0.96 KL/1 at 20° C
pH (concentrate) 5.8 ± 0.2
pH (active) 5.01 ± 0.2
Viscosity (20° C) 0.13-0.25 dynes/cm²
6.25% Solution 0.625-1.25 dynes/cm²
Biodegradability 82% in 14 Days

STABILITY & REACTIVITY:

Conditions to Avoid: None. (This material is stable under normal conditions of use).
Materials to Avoid: None
Hazardous Polymerisation: Not occur
Hazardous Decomposition Products: None

HEALTH HAZARD INFORMATION AND PRECAUTIONS FOR USE

TOXICOLOGY:

Repeated inhalation of aerosols or enzyme dust resulting from inappropriate handling may induce sensitisation and may cause allergic reactions in sensitive individuals. Skin contact may cause an irritation. The preparation is non-toxic and ingestion of small quantities is not considered a hazard, but see next item.

FIRST AID MEASURES:

Skin Contact:	Wash skin with plenty of water.
Eye Contact:	Rinse eyes with plenty of water.
Ingestion:	Rinse mouth and throat thoroughly with water. Drink water. Should irritation occur, seek medical advice.
Inhalation:	Remove from exposure. If symptoms of irritation or sensitisation occur (shortness of breath, wheezing or laboured coughing), seek medical advice.

FIRE-FIGHTING MEASURES:

Protection against Fire and Explosions:	No special requirements
Suitable Fire Extinguish Media:	Water, foam, CO ₂
Non Suitable Media:	None
Special Exposure Hazards:	None
Flash point, Flammable limits and Auto Ignition Temperature:	Not applicable.

ACCIDENTAL RELEASE MEASURES:

Spilled preparation should be removed immediately. Avoid formation of aerosols. Take up by mechanical means preferably by a vacuum cleaner. Dispose of recovered liquid as per "Disposal Considerations" below. Wash machines thoroughly with plenty of water. Flush remainder carefully to drain using copious amounts of water. Avoid splashing and high pressure washing to avoid formation of aerosols. Ensure sufficient ventilation.

HANDLING AND STORAGE:

Store containers in a cool and dry space. Room temperature is sufficient.
Avoid formation of dust.
Ensure good ventilation of the room when handling this preparation.

EXPOSURE CONTROLS & PERSONAL PROTECTION:

Recommended Protective Equipment:	Full face mask
Hand protection:	Impermeable latex gloves
Eye Protection:	Glasses or eye shield
Other Protection:	Normal workwear
Respiratory Protection:	Respirator approved for this type of dust and potential airborne concentrations,

ECOLOGICAL AND DISPOSAL INFORMATION

ECOLOGICAL INFORMATION:

The preparation is biodegradable and not harmful to aquatic and marine organisms when dissolved with copious amounts of water.

DISPOSAL CONSIDERATIONS

No special disposal method required, except that in accordance with current local authority regulations. In case of spillage, carefully collect and dissolve in water before disposal.

TRANSPORT INFORMATION

UN No:	Not applicable
Sea:	Not applicable
Road/Rail:	Not applicable
Air:	Not applicable

REGULATORY INFORMATION:

The preparation does not contain ingredients listed as dangerous substances in Annex I of the EEC Directive 67/548.

R-42: May cause sensitisation by inhalation

OTHER INFORMATION:

The information contained in this Material Safety Data Sheet as of the issue date is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee.

Since the conditions of use are beyond the control of the manufacturer I.R.A.S.S.S. and its agents, it is the responsibility of the user to determine the conditions of safe use of this preparation. The information in this sheet does not represent analytical specifications.

The format of this enzyme Material Safety Data Sheet complies with the EEC Directive 91/55/EEC and is recommended by the Association of Manufactures of Fermentation Enzyme Products "AMFEP".