

XLR8® N

XLR8® N is a formulation that stimulates nitrogen sequestration in a soil environment.

Warnings: Not for human consumption. If accidental ingestion occurs, call a poison control centre. Do not use this product in any way contrary to this label. Keep away from eyes and exposed skin. If skin or eye contact occur rinse thoroughly with clean water to avoid irritation. Follow all local laws when disposing of this product. Use in a well-ventilated area. This product has a strong fermentative odour which dissipates quickly after use.

NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THE LABEL

Ingredients: Purified water, yeast, syrup, humates, phosphate mix, soap, food grade phosphoric acid.

Storage Instructions: Store in a shaded place until ready to use. DO NOT FREEZE. Keep container closed and free of debris when not in use. DO NOT SHAKE. XLR8® N is a fermented product. Colour and odour may vary during storage.

Directions for Use:

Application to Soil (including bare ground, fallow ground and ratoon crop)

Dilute 1:10 in water and apply to soil as a fine mist 7 to 10 days prior to planting. May be sprayed with fertiliser. Reapply 14 days after application of fungicides, herbicides or sterilising agents for all crop types. Apply once per growing cycle unless otherwise stated.

Crop Type	First Application (L/ Ha)	Subsequent Application (L/ Ha)	Special instructions
Bare ground	200	150	
Fallow ground	100	50	Apply at commencement of fallow
Ratoon crop	150	100	Apply with fertiliser prior to crop emergence
Field Crops	200	150	
Broadacre	200	150	Apply with fertiliser after ground preparation. Apply directly to ground after harvest.
Intensive Horticulture	200	150	
Tree fruit	200	150	Apply directly to soil under tree canopy.
Aquaculture	100	100	Apply as part of pond base preparation 14 days prior to refilling.
Paddy Rice	100	100	Apply as part of paddy floor preparation 14 days prior to refilling.

Application to Plant (Foliar Spray)

Dilute 1:40 and apply as directed in a fine mist.

Crop Type	First Application	Subsequent Application	Special instructions
Field crops	20	20	Ideally applied as a mist just under the canopy
Intensive Horticulture	20	10	Ideally applied with other foliar feed.
Tree Fruit	19	19	Apply as a mist under the canopy prior to flowering/fruitletting. Apply to the ground in the area under the canopy.
Paddy Rice	8	5	After paddy filling, apply to water surface by fine spray.

Application to Plant (Fertigation)

Dilute 1:1 with water and apply through centre pivot or micro-dripper system.

Crop Type	First Application	Subsequent Application	Special instructions
Intensive Horticulture	300	250	

List of Field Crop Types

Crop types suitable for application are listed below. Click on those underlined for case studies.

- Corn
- Sugar cane

List of Intensive Horticulture Types

Intensive horticulture crop types are listed below. Click on those underlined for case studies.

- Potato
- Cucumber
- Chilli
- Zucchini

List of Broadacre Types:

Broadacre crop types are listed below. Click on those underlined for case studies.

- Sugar cane
- Corn
- Wheat
- Pasture



SAFETY DATA SHEET

VRM XLR8® N

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	: XN
WHMIS Classification	: N/A
Product Use	: Bio-fertiliser, Liquid Fertiliser Supplement, Soil Conditioner & Nitrogen Mobiliser
Manufacturer's Name	: VRM Biologik Pty Ltd
Street Address	: 22 Reward Crescent, Bohle, Queensland 4818 Australia
Phone	: +61 7 4774 6337
Date Prepared	: 16 September 2019

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	%	CAS Number	LD50 of Ingredient	LC50 of Ingredient
Purified Water	96.67	7732-18-5	N/A	N/A
Syrup	2.8	68425-17-2	N/A	N/A
Phosphoric Acid	0.25	7664-38-2	N/A	N/A
Vegetable Oil	0.2	84681-71-0	N/A	N/A
Potassium Humate	0.05	68514-28-3	N/A	N/A
Yeast	0.03	68876-77-7	N/A	N/A

3. HAZARDS IDENTIFICATION

Poisons Schedule (Australia)	: N/A
Hazard Categories	: N/A
Pictograms	: N/A
Signal Word	: N/A
Hazard Statements	: N/A

4. FIRST AID MEASURES

Contact Point	Detrimental Results	First Aid Measures
Eye Contact:	May result in mild irritation. Avoid contact with water - based contact lenses.	Rinse with water for at least 15 minutes.
Skin Contact :	Prolonged contact with concentrated liquid. May result in dryness and irritation of sensitive skin.	N/A
Ingestion:	May cause nausea if swallowed.	Give water to drink, do not induce vomiting.
Inhalation:	None at prepared dilutions. Note: intentional concentration and inhalation of vapours may be harmful.	Remove victim to open and ventilated area.

5. FIRE FIGHTING MEASURES

Flammable Limits	: Non-Flammable
Means of Extinction	: N/A
Flash Point (Degrees C)	: N/A
Upper Flammable Limit (% by volume)	: N/A
Lower Flammable Limit (% by volume)	: N/A
Auto Ignition Temperature (Degrees C)	: N/A
Explosion Data - Sensitivity to Impact	: N/A
Explosion Data - Sensitivity to Static Discharge	: N/A
Hazardous Combustion Products	: N/A

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	: Nil
Clean Up Procedures	: Wash area with water to prevent stickiness.
Waste Disposal Information	: Dispose to sewer or with composted material.

7. HANDLING AND STORAGE

Handling	: Avoid excessive shaking. Vent storage containers during transport.
Precautions For Safe Handling	: None
Storage	: Store away from excessive heat, avoid excessive shaking, vent storage containers during transport.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits	: N/A
Respiratory Protection	: Exercise caution when concentration of vapour is possible.
Ventilation	: Exercise caution when concentration of vapour is possible.
Protective Gloves	: Rubber / Plastic Gloves recommended.
Eye Protection	: Safety Glasses recommended for prolonged contact with concentrated liquid (liquid is low pH)
Other Protective Measures	: Avoid Inhalation of concentrated vapour.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Odour and Appearance	: Brown Colour / Fermented Fragrance / Ammonia Smell
Odour Threshold	: Not Available
Specific Gravity (H ₂ O=1)	: 1.18 (Water)
Vapour Density (Air=1)	: As water
Vapour Pressure (mmHg)	: As water
Evaporation Rate: (Butyl Acetate=1)	: As water
Boiling Point (degrees C)	: 100 Degrees Celsius
Freezing Point (degrees C)	: 0 Degrees Celsius
pH	: 3.1 to 3.8
Coefficient of Water/Oil Distribution	: Not Available
Solubility In Water	: Liquid Soluble
Percent Volatile By Volume	: < 2%



10. STABILITY AND REACTIVITY DATA

Stability	: Alcohol be released when sprayed as aerosol.
Conditions To Avoid	: Excessive direct heat may damage product. Avoid Inhalation of concentrated vapour.
Materials To Avoid	: Contact with Strong Alkali products may result in exothermic reaction.
Hazardous Decomposition Products	: None
Hazardous Polymerisation	: None

11. TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	: N/A
Effects of Chronic Exposure	: N/A

Irritancy of Product

Skin Sensitisation	: N/A
Respiratory Sensitisation	: N/A
Carcinogenicity-IARC	: N/A
Carcinogenicity-ACGIH	: N/A
Reproductive Toxicity	: N/A
Teratogenicity	: N/A
Embryotoxicity	: N/A
Mutagenicity	: N/A

12. ECOLOGICAL INFORMATION

Ecotoxicity	: Nil
Persistence and Degradability	: Nil
Mobility	: Nil
Other Adverse Effects	: Nil
Bioaccumulation potential	: Nil
Environmental Fate	: Nil
Environmental Impact	: Nil

13. DISPOSAL CONSIDERATIONS

General Information	: Dispose to sewer or with composted material.
Special Precautions for Landfill	: Recycle container where possible.



14. TRANSPORT INFORMATION

LAND TRANSPORT

Proper Shipping Name	: VRM XLR8® N
Class	: Non-hazardous
Subsidiary Risk(s)	: Nil
EPG	: N/A
UN Number	: N/A
Hazchem	: N/A
Pack Group	: N/A
Special Precautions for user	: Nil

SEA TRANSPORT

Proper Shipping Name	: VRM XLR8® N
Class	: Non-hazardous
Subsidiary Risk(s)	: Nil
UN Number	: N/A
Hazchem	: N/A
Pack Group	: N/A

15. REGULATORY INFORMATION

Poisons Schedule	: No Poisons Schedule number allocated
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16. OTHER INFORMATION

For information on appropriate emergency procedures, seek medical advice. For emergencies, please contact +61 403 466 820 (24 hours)

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