

Safety Data Sheet

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Version: 1

Section 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Identifier:

Product Name: Osmocote Topdress FT 4-5M**Product ID:** 41610225AU

Other Means of Identification:

UN Number Not regulated

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: Fertilizer. Restricted to professional users.

Details of manufacturer or importer

Manufacturer

Everris Australia Pty Ltd, 211/33 Lexington Drive, Bella Vista, NSW 2153, Australia. Tel: +61(2) 8801 3300

Emergency Telephone Numbers:

Australia: (02) 8014 4558

New Zealand: (09) 9929 1483

Section 2: HAZARD(S) IDENTIFICATION

GHS - Classification

Mixture

Not a hazardous substance or mixture in Australia or New Zealand according to the Globally Harmonized System of classification.

Label elements

Hazard statements

Not a hazardous substance or mixture in Australia or New Zealand according to the Globally Harmonized System of classification.

Other hazards

Causes mild skin irritation

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS IN ACCORDANCE WITH SCHEDULE 8

Substance

Ingredients	CAS-No	EC-No.	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Ammonium Nitrate; NH ₄ NO ₃	6484-52-2	229-347-8	30 - 60%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
Urea	57-13-6	200-315-5	10 - 30%	Not classified	01-2119463277-33
Sulphur; S	7704-34-9	231-722-6	1 - 5%	Skin Irrit. 2 (H315)	01-2119487295-27
Manganese sulphate; MnSO ₄ +1H ₂ O	7785-87-7	232-08-99	0.1 - 1%	STOT RE 2 (H373) Eye Dam. 1 (H318)	01-2119456624-35

				Aquatic Chronic 2 (H411)	
Biuret; C ₆ H ₈ O ₇	108-19-0	203-559-0	0.1 - 1%	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	
Zinc sulphate mono hydrate; ZnSO ₄ +1H ₂ O	7446-19-7	231-793-3	0.1 - 1%	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119474684-27
Zinc oxide; ZnO	1314-13-2	1314-13-2	0.1 - 1%	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119463881-32
Copper (I) Oxide; Cu ₂ O	1317-39-1	215-270-7	< 0.1%	Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119513794-36

36% of the other ingredients are determined not be hazardous.

Section 4: FIRST AID MEASURES

First Aid Measures:

General advice	First aid measures should be executed by trained personnel only.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

Most Important Symptoms and Effects (Acute and Chronic):

Symptoms No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

Note to physicians Treat symptomatically.

Section 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the chemical Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Personal precautions Ensure adequate ventilation. Avoid generation of dust.

For emergency responders Use personal protection recommended in Section 8.

Environmental Precautions:

Environmental precautions Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. See Section 12 for additional Ecological Information.

Methods and Material for Containment and Cleanup:

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED**Precautions for Safe Handling:**

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Use personal protection equipment.

Conditions for Safe Storage, Including any Incompatibilities:

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Protect from sunlight.

Incompatible materials Strong oxidizing agents, strong acids, and strong bases. Strong reducing agents.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Control Parameters:**

Ammonium Nitrate; NH₄NO₃	
Australia TWA	N.A.
Manganese sulphate; MnSO₄+1H₂O	
Australia TWA	0.2 mg/m ³
Zinc oxide; ZnO	
Australia TWA	5 mg/m ³ TWA

Appropriate Engineering Controls:

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual Protection Measures, Such as Personal Protective Equipment:

Eye/face Protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties:

Physical State: Solid
Appearance: Granules
Color: orange brown grey
Odor: Not significant.
Odor Threshold: No information available

<u>Property</u>	<u>Values</u>	<u>Remarks: • Method</u>
pH:	No information available	No information available
Melting Point/Freezing Point:	No information available	No information available
Boiling Point/Range:	No information available	No information available
Flash Point:	No information available	No information available
Evaporation Rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Flammability Limits in Air:		No information available
Upper Flammability Limit:	No information available	
Lower Flammability Limit:	No information available	
Vapor Pressure:	No information available	No information available
Vapor Density:	No information available	No information available
Relative density	No information available	No information available
Water Solubility:	No information available	No information available
Solubility(ies)	Soluble in water	No information available
Partition Coefficient:	No information available	No information available
Autoignition Temperature:	No information available	No information available
Decomposition Temperature:	No information available	No information available
Kinematic Viscosity:	No information available	No information available
Dynamic Viscosity:	No information available	No information available

Other Information:

Softening Point: No information available
Molecular Weight: No information available
VOC Content (%): No information available
Bulk Density: 800-1100 kg/m³
particle size
Particle Size Distribution

Section 10: STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical Stability: Stable under normal conditions.

Specific methods:

Sensitivity to Mechanical Impact None.
 Sensitivity to Static Discharge None.

Possibility of Hazardous Reactions:

Possibility of hazardous reactions None under normal processing.

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Conditions to Avoid:

Conditions to avoid For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well.

Incompatible Materials:

Incompatible materials Strong oxidizing agents, strong acids, and strong bases. Strong reducing agents.

Hazardous Decomposition Products:

Hazardous Decomposition Products: None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

Product Information

Inhalation May cause irritation of respiratory tract.

Eye contact May cause irritation.

Skin Contact May cause irritation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Symptoms No information available.

Numerical Measures of Toxicity - Product Information:

Unknown acute toxicity No information available

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Nitrate; NH ₄ NO ₃	= 2217 mg/kg (Rat)	-	> 88.8 mg/L (Rat) 4 h
Urea	= 8471 mg/kg (Rat)	-	-
Sulphur; S	> 3000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 9.23 mg/L (Rat) 4 h
Manganese sulphate; MnSO ₄ ·1H ₂ O	= 782 mg/kg (Rat)	-	-
Zinc oxide; ZnO	> 5000 mg/kg (Rat)	-	-
Copper (I) Oxide; Cu ₂ O	= 470 mg/kg (Rat)	> 2000 mg/kg (Rat)	= 5 mg/L (Rat) 4 h

See section 16 for terms and abbreviations

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ Cell Mutagenicity No information available.

Carcinogenicity No information available.

Reproductive Toxicity No information available.

STOT - Single Exposure No information available.

STOT - Repeated Exposure No information available.

Aspiration Hazard No information available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity Do not allow product to enter the environment uncontrolled.

Ingredients	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Ammonium Nitrate; NH ₄ NO ₃	-	65 - 85: 48 h Cyprinus carpio mg/L LC50 semi-static	-	-
Urea	> 10000: 192 h Scenedesmus quadricauda mg/L EC50	16200 - 18300: 96 h Poecilia reticulata mg/L LC50	-	3910: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna Straus mg/L EC50
Sulphur; S	-	866: 96 h Brachydanio rerio mg/L LC50 static 14: 96 h Lepomis macrochirus mg/L LC50 static 180: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-
Copper (I) Oxide; Cu ₂ O	65: 96 h Desmodosmus subspicatus mg/L EC50 0.021 - 0.037: 96 h Pseudokirchneriella subcapitata mg/L EC50 0.055 - 0.076: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	-	-	0.51: 48 h Daphnia magna mg/L EC50

Persistence and degradability

Persistence and Degradability: No information available.

Bioaccumulative potential

Bioaccumulation: No information available.

Mobility

Mobility in soil No information available.

Mobility No information available.

Ingredients	LOGPOW
Ammonium Nitrate; NH ₄ NO ₃	-3.1
Urea	-1.59

Other adverse effects

Mobility: No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Section 14: TRANSPORT INFORMATION

ADR/RID:

UN Number Not regulated

IATA

UN-No: Not regulated

IMO / IMDG

UN-No: Not regulated

Marine Pollutant: Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Australia

See section 8 for national exposure control parameters

International Inventories:

TSCA This product does not comply with USINV

DSL/NDSL DSL/NDSL

EINECS/ELINCS EINECS/ELINCS

ENCS This product does not comply with encs:

CHINA This product does not comply with china:

KOREA KOREA

PICCS PICCS

Australian Inventory of Chemical Substances This product does not comply with AICS

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

International Regulations

Ozone-depleting substances (ODS) Not Applicable

Persistent Organic Pollutants Not Applicable

Export Notification requirements Not Applicable

Section 16: ANY OTHER RELEVANT INFORMATION

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Revision Note:
Not Applicable.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	carcinogen		

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet