

# Safety Data Sheet

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Version: 2

## Section 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

### Product identifier

**Product Name** Osmocote Exact Standard 12-14M  
**Product ID** 88430225AU

### Other means of identification

**Proper shipping name** AMMONIUM NITRATE BASED FERTILIZER

**Synonyms:** 15-3.9-9.1+1.2Mg+TE

### Recommended use of the chemical and restrictions on use

**Recommended Use** Fertilizer (PC12). 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

**E-mail address** INFO-MSDS@EVERRIS.COM

#### Emergency telephone number

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 which do not result in classification

No hazards to be especially mentioned

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

### Substance

Chemical name	CAS No	EC No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	6484-52-2	229-347-8	30 - 60%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	7720-78-7	231-753-5	1 - 5%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	01-2119513203-57

				Acute Tox. 4 (H302)	
Copper sulphate anhydrous; CuSO <sub>4</sub>	7758-98-7	231-847-6	0.1 - 1%	Skin irrit. 2 (H319) Eye irrit. 2 (H315) Acute Tox. 4 (H302) Aquatic Chronic 1 (H410)	01-2119520566-40
Manganese sulphate; MnSO <sub>4</sub> +1H <sub>2</sub> O	7785-87-7	232-089-9	0.1 - 1%	STOT RE 2 (H373) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	01-2119456624-35
Sodium borate; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	1330-43-4	215-540-4	0.1 - 1%	Eye Irrit. 2 (H319) Repr. 1B (H360FD)	01-2119490790-32
Zinc sulphate mono hydrate; ZnSO <sub>4</sub> +1H <sub>2</sub> O	7446-19-7	231-793-3	< 0.1%	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119474684-27

58% of the other ingredients are determined not be hazardous.

## Section 4: FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	First aid measures should be executed by trained personnel only.
<b>Inhalation</b>	Remove to fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary. Possible symptoms are coughing and/or dyspnoea. If breathing is difficult, give oxygen.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin Contact</b>	Wash skin with soap and water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Possible symptoms are nausea and/or vomiting. If a person vomits when lying on his back, place him in the recovery position. Do not induce vomiting without medical advice. Consult a physician if necessary.

### Most important symptoms and effects, both acute and delayed

**Symptoms** no data available.

### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

## Section 5: FIREFIGHTING MEASURES

### Suitable Extinguishing Media

<b>Suitable Extinguishing Media</b>	CO <sub>2</sub> , dry chemical, dry sand, alcohol-resistant foam.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams. Dry chemical. Foam.
<b>Hazardous Combustion Products</b>	Carbon oxides. Phosphorus oxides. Ammonia. Nitrogen oxides (NO <sub>x</sub> ).

### Special protective actions for fire-fighters

**Special protective equipment for** Coordinate fire extinguishing measures to fire in surrounding area.

fire-fighters

## 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 cleaning up

**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.

## 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** None known based on information supplied.

## Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Control parameters

<b>Copper sulphate anhydrous; CuSO<sub>4</sub></b>	
Australia	N.A.
<b>Manganese sulphate; MnSO<sub>4</sub>+1H<sub>2</sub>O</b>	
Australia	0.2 mg/m <sup>3</sup>
<b>Sodium borate; Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub></b>	
Australia	1 mg/m <sup>3</sup> TWA

### Appropriate engineering controls

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems.

### 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.

**Hand Protection** Nitrile rubber. Break though time >8h.

**Environmental exposure controls** no data available.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid
<b>Appearance:</b>	Granules
<b>Color:</b>	brown
<b>Odor:</b>	Fertilizer.
<b>Odor Threshold:</b>	No data available

<b>pH</b>	No data available
<b>Melting Point/Freezing Point:</b>	No data available
<b>Boiling Point/Range:</b>	No data available
<b>Flash Point:</b>	No data available
<b>Evaporation Rate:</b>	no data available
<b>Flammability (solid, gas):</b>	Non-flammable
<b>Vapor Pressure:</b>	No data available
<b>Vapour density</b>	No data available
<b>Water Solubility:</b>	no data available
<b>Partition Coefficient:</b>	no data available
<b>Autoignition Temperature:</b>	No data available
<b>Hyphen</b>	no data available
<b>Kinematic Viscosity:</b>	No data available
<b>Dynamic Viscosity:</b>	no data available

### Other information

<b>Softening Point:</b>	no data available
<b>Molecular Weight:</b>	no data available
<b>VOC Content (%)</b>	No data available
<b>Particle Size</b>	
<b>Particle Size Distribution</b>	

## Section 10: STABILITY AND REACTIVITY

**Reactivity** Not reactive.

**Chemical stability** Stable under normal conditions.

### 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** None known based on information supplied.

### Hazardous decomposition products

**Hazardous Decomposition Products** None known based on information supplied.

## Section 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	May cause redness, itching, and pain.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

**Symptoms** no data available.

#### Numerical measures of toxicity - Product Information

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	= 2217 mg/kg ( Rat )	> 5000 mg/kg	> 88.8 mg/L ( Rat ) 4 h
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	= 500 mg/kg ( Rat )	-	.?
Copper sulphate anhydrous; CuSO <sub>4</sub>	= 300 mg/kg ( Rat )	= 1000 mg/kg ( Rabbit )	.?
Manganese sulphate; MnSO <sub>4</sub> +1H <sub>2</sub> O	= 2125 mg/kg ( Rat )	-	> 4.98 mg/L (Rat) 4h
Sodium borate; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	= 2660 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 2 mg/m <sup>3</sup> ( 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:

<b>skin corrosion/irritation</b>	Classification based on individual ingredients of the mixture.
<b>Serious eye damage/eye irritation</b>	Classification based on individual ingredients of the mixture.
<b>Respiratory or skin sensitization</b>	Classification based on individual ingredients of the mixture.
<b>Germ Cell Mutagenicity</b>	Classification based on individual ingredients of the mixture.
<b>Carcinogenicity</b>	Classification based on individual ingredients of the mixture.
<b>Reproductive Toxicity</b>	Classification based on individual ingredients of the mixture.
<b>STOT - Single Exposure</b>	Classification based on individual ingredients of the mixture.
<b>STOT - Repeated Exposure</b>	Classification based on individual ingredients of the mixture.
<b>Aspiration Hazard</b>	Classification based on individual ingredients of the mixture.

## Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

**Ecotoxicity** Do not allow product to enter the environment uncontrolled.

**Unknown aquatic toxicity** 9 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	-	LC50: =0.56mg/L (96h, Cyprinus carpio) LC50: =925mg/L (96h, Poecilia reticulata)	-	EC50: 6.15 - 9.26mg/L (48h, Daphnia magna) EC50: =152mg/L (48h, Daphnia magna)
Copper sulphate anhydrous; CuSO <sub>4</sub>	-	LC50: =0.1mg/L (96h, Oncorhynchus mykiss)	-	0.024: 48 h Daphnia magna mg/L EC50
Sodium borate; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	158: 96 h Desmodesmus subspicatus mg/L	LC50: =340mg/L (96h, Limanda limanda)	-	LC50: 1085 - 1402mg/L (48h, Daphnia magna)

#### Persistence and degradability

**Persistence and Degradability:** no data available.

#### Bioaccumulative potential

**Bioaccumulation** No information available.

#### Mobility

**Mobility in soil** no data available.

**Mobility** no data available.

Chemical name	Partition coefficient
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	-3.1

#### Other adverse effects

**Other adverse effects** 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

**ADG** Not regulated

#### IATA

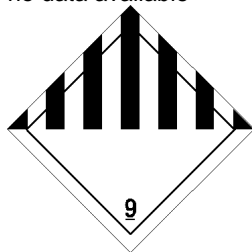
**UN number or ID number** 2071  
**Proper shipping name:** AMMONIUM NITRATE BASED FERTILIZER  
**Transport hazard class(es)** 9  
**Packing group** III  
**Special Provisions** A89, A90

#### IMDG

**UN number or ID number** 2071  
**Proper shipping name:** AMMONIUM NITRATE BASED FERTILIZER

**Transport hazard class(es)** 9  
**Packing group:** III  
**EmS:** F-H / S-Q  
**Special Provisions** 186, 193  
**Marine Pollutant:** Not regulated

**Bulk transport according Annex II of MARPOL and IBC Code**  
 no data available



## Section 15: REGULATORY INFORMATION

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

### **National regulations**

#### **New Zealand:**

**Hazardous Substances Regulations**

Not regulated

#### **Australia**

See section 8 for national exposure control parameters

### **International Inventories:**

**TSCA**

This product complies with USINV

**ENCS**

This product complies with encs:

**Australian Inventory of Chemical Substances**

This product does not comply with AICS

### **Legend:**

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

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

**AICS** - Australian Inventory of Chemical Substances

### **International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applied

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

## Section 16: ANY OTHER RELEVANT INFORMATION

**Prepared by** Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)  
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**Revision Date** 14-Jul-2021  
**Revision Note** Not applied

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

ADG: Australian Dangerous Goods code

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

ICAO: International Civil Aviation Organization

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PNEC: Predicted No Effect Concentration

DNEL: Derived No-Effect Level

REACH: Registration, Evaluation, Authorization of Chemicals

CLP: EU-GHS; Classification, Labelling and Packaging

OEL: Occupational Exposure Limit

TWA: Time Weighted Average

ATE: Acute Toxicity Estimate

EUH phrase: CLP (EU) specific hazard statement

LD50: Lethal dose, 50%.

LC50: Lethal concentration, 50%.

SVHC: Substance of Very High Concern.

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA

TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling

Maximum limit value

\*

Skin designation

**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**