

# Safety Data Sheet

Issue Date 12-Mar-2014

Revision Date 13-Jan-2020

Version: 1

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

### Product Identifier:

Product Name Osmocote 5 3-4M

Product ID: 88750225AU

### Other Means of Identification:

Proper shipping name AMMONIUM NITRATE BASED FERTILIZER

UN Number 2071

### 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

#### Emergency Telephone Numbers:

Australia: (02) 8014 4558

New Zealand: (09) 9929 1483

## Section 2: HAZARD(S) IDENTIFICATION

### GHS - Classification

Mixture

Serious eye damage/eye irritation

Category 1 - (H318)

### Label elements



### Signal word

Danger

### Hazard statements

H318 - Causes serious eye damage

### Precautionary Statements - Prevention

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

### Other hazards

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

#### Substance

Chemical Name	CAS No	EC-No.	Weight %	Classification according Regulation (EC) 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
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	7778-80-5	231-915-5	5 - 10%	Eye Dam. 1 (H318)	01-2119489441-34
Copper-EDTA; Cu-EDTA	14025-15-1	237-864-5	0.1 - 1%	Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119963944-23
Boric acid; H <sub>3</sub> BO <sub>3</sub>	10043-35-3	233-139-2	< 0.1%	Repr. 1B (H360FD)	01-2119486683-25

49.8% of the other ingredients are determined not be hazardous.

### Section 4: FIRST AID MEASURES

#### First Aid Measures:

<b>General advice</b>	First aid measures should be executed by trained personnel only.
<b>Inhalation</b>	Dusty conditions are unlikely if product is used as intended. However, if prolonged inhalation of dust occurs, remove casualty to fresh air. If symptoms persist, call a physician.
<b>Eye contact</b>	Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
<b>Skin Contact</b>	Wash skin with soap and water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Consult a physician if necessary.

#### 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

<b>Suitable Extinguishing Media</b>	Water.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams. Dry chemical. Foam.
<b>Specific hazards arising from the chemical</b>	In case of fire, the product will smoulder even without the presence of external oxygen. In these conditions the product will show self sustaining decomposition. The best method to extinguish the fire is to cool the decomposition front with water. Thermal decomposition can lead to release of irritating and toxic gases and vapors.
<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 fire-fighters** Coordinate fire extinguishing measures to fire in surrounding area.

**Hazchem code** 1Z

## 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.

## 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** Keep away from catalysts like derivatives of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

## Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Control Parameters:**

<b>Ammonium nitrate; NH<sub>4</sub>NO<sub>3</sub></b>	
Australia	N.A.
<b>Copper-EDTA; Cu-EDTA</b>	
Australia	N.A.
<b>Boric acid; H<sub>3</sub>BO<sub>3</sub></b>	
Australia	12 mg/m <sup>3</sup>

**Appropriate Engineering Controls:**

**Engineering Controls** None under normal use conditions.

**Individual Protection Measures, Such as Personal Protective Equipment:**

<b>Eye/face Protection</b>	Wear eye/face protection.
<b>Skin and body protection:</b>	Lightweight protective clothing.
<b>Hand Protection</b>	Nitrile rubber. Break though time >8h.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>Environmental exposure controls</b>	Local authorities should be advised if significant spillages cannot be contained. 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:**

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Granules
<b>Color:</b>	brown, tan, green, beige
<b>Odor:</b>	Not significant.
<b>Odor Threshold:</b>	No information available
<b>pH:</b>	No information available
<b>Melting Point/Freezing Point:</b>	No information available
<b>Boiling Point/Range:</b>	Solid. Not applicable
<b>Flash Point:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Flammability (solid, gas):</b>	Non-flammable
<b>Vapor Pressure:</b>	Solid. Not applicable
<b>Vapour density</b>	Solid. Not applicable
<b>Water Solubility:</b>	Slowly soluble in water
<b>Partition Coefficient:</b>	Solid. Not applicable
<b>Autoignition Temperature:</b>	No information available
<b>Decomposition temperature:</b>	No information available
<b>Kinematic Viscosity:</b>	No information available
<b>Dynamic Viscosity:</b>	No information available

**Other Information**

<b>Softening Point:</b>	No information available
<b>Molecular Weight:</b>	No information available
<b>VOC Content (%):</b>	No information available
<b>Bulk Density:</b>	900-1100 kg/m <sup>3</sup>
<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** Keep away from catalysts like derivatives of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

**Hazardous Decomposition Products:**

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

**Section 11: TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

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

**Product Information**

**Inhalation** Inhalation of dust in high concentration may cause irritation of respiratory system.

**Eye contact** Causes serious eye damage.

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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	= 2217 mg/kg ( Rat )	> 5000 mg/kg	> 88.8 mg/L ( Rat ) 4 h
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	= 6600 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	N.E.
Boric acid; H <sub>3</sub> BO <sub>3</sub>	= 2660 mg/kg ( Rat )	> 2000 mg/kg	> 0.16 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** Classification based on individual ingredients of the mixture.

**Serious eye damage/eye irritation** Classification based on individual ingredients of the mixture.

**Respiratory or skin sensitization** Classification based on individual ingredients of the mixture.

**Germ Cell Mutagenicity** Classification based on individual ingredients of the mixture.

**Carcinogenicity** Classification based on individual ingredients of the mixture.

**Reproductive Toxicity** Classification based on individual ingredients of the mixture.

**STOT - Single Exposure** Classification based on individual ingredients of the mixture.

**STOT - Repeated Exposure** Classification based on individual ingredients of the mixture.

**Aspiration Hazard** 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** 6 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	-	65 - 85: 48 h Cyprinus carpio mg/L LC50 semi-static	-	-
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	2900: 72 h Desmodesmus subspicatus mg/L EC50	653: 96 h Lepomis macrochirus mg/L LC50 3550: 96 h Lepomis macrochirus mg/L LC50 static 510 - 880: 96 h Pimephales promelas mg/L LC50 static	-	890: 48 h Daphnia magna mg/L EC50
Boric acid; H <sub>3</sub> BO <sub>3</sub>	-	1020: 72 h Carassius auratus mg/L LC50 flow-through	-	115 - 153: 48 h Daphnia magna mg/L EC50

### Persistence and degradability

**Persistence and Degradability:** No persistent or cumulative effects were observed.

### Bioaccumulative potential

**Bioaccumulation:** Does not bioaccumulate.

### Mobility

**Mobility in soil** No information available.

**Mobility** No information available.

Chemical Name	LOGPOW
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	-3.1
Boric acid; H <sub>3</sub> BO <sub>3</sub>	-0.757

### 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 2071  
 Proper shipping name AMMONIUM NITRATE BASED FERTILIZER  
 Hazard Class 9  
 Packing Group III

Hazchem code 1Z

**IATA**

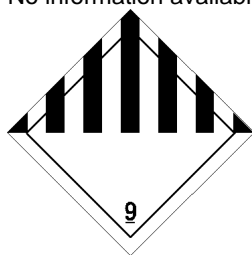
UN-No: 2071  
 Proper shipping name AMMONIUM NITRATE BASED FERTILIZER  
 Hazard Class: 9  
 Packing group: III  
 Special Provisions A89, A90

**IMDG/IMO**

Proper shipping name AMMONIUM NITRATE BASED FERTILIZER  
 Hazard Class: 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 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  
**ENCS** This product does not comply 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

**Ozone-depleting substances (ODS)** Not applied

Persistent Organic Pollutants Not applied

The Rotterdam Convention Not applied

### Section 16: ANY OTHER RELEVANT INFORMATION

Issue Date 12-Mar-2014

Revision Date 13-Jan-2020

Revision Note  
Not applied.

#### 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

#### 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**