# **Safety Data Sheet**

Issue Date: 23-Jun-2016 Revision Date: 13-Jul-2016 Version: 1

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code 76600115AU

Product Name: Professional Landscape Formula Flora

Proper shipping name: AMMONIUM NITRATE BASED FERTILIZER

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Fertilizer

Uses Advised Against: Consumer use [SU 21].

1.3. Details of the supplier of the safety data sheet

Manufacturer

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

For further information, please contact

INFO-MSDS@EVERRIS.COM

1.4. Emergency telephone number

Australia: (02) 8014 4558 New Zealand: (09) 9929 1483

### **Section 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification of the substance or mixture

Mixture

Regulation (EC) No 1272/2008

Serious Eye Damage or Eye Irritation	Category 1 - (H318)
Chronic aquatic toxicity	Category 3 - (H412)

#### 2.2. Label elements

### **Product Identifier:**



**Signal Word:** 

Danger

### **Hazard Statements:**

H318 - Causes serious eye damage

H412 - Harmful to aquatic life with long lasting effects

Contains Potassium sulphate; K2SO4

EUH204 - Contains isocyanates. May produce an allergic reaction

### Precautionary Statements - EU (§28, 1272/2008)

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

P501 - Dispose of container in accordance with local regulation

### Other hazards (UN-GHS)

Harmful to aquatic life.

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Chemical Name	EC No.	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Ammonium Nitrate; NH4NO3	229-347-8	6484-52-2	30 - 60%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	231-915-5	7778-80-5	10 - 30%	Eye Dam. 1 (H318)	01-2119489441-34
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	231-753-5	7720-78-7	0.1 - 1%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119513203-57
Copper sulphate anh; CuSO <sub>4</sub>	231-847-6	7758-98-7	0.1 - 1%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119520566-40
Manganese sulphate; MnSO <sub>4</sub> +1H <sub>2</sub> O	232-08-99	7785-87-7	0.1 - 1%	STOT RE 2 (H373) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	01-2119456624-35
Manganese Oxide; MnO	215-202-6	1344-43-0	< 0.1%	Not classified	01-2119446291-44
Zinc oxide; ZnO	1314-13-2	1314-13-2	< 0.1%	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119463881-32
Zinc sulphate mono hydrate; ZnSO <sub>4</sub> +1H <sub>2</sub> O	231-793-3	7446-19-7	< 0.1%	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119474684-27
Copper (I) Oxide; Cu <sub>2</sub> O	215-270-7	1317-39-1	< 0.1%	Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119513794-36
Biuret; C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>	203-559-0	108-19-0	< 0.1%	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	no data available
Sodium borate; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	215-540-4	1330-43-4	< 0.1%	Eye Irrit. 2 (H319) Repr. 1B (H360FD)	01-2119490790-32

Full text of H- and EUH-phrases: see section 16

### **Section 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

**General Advice:** First aid measures should be executed by trained personnel only.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a

physician.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if

present, after the first 5 minutes, then continue rinsing. If eye irritation persists, consult a

specialist.

**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.

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Protection of First-Aiders: Low hazard for usual industrial or commercial handling.

4.2. Most important symptoms and effects, both acute and delayed

**Symptoms:** None under normal processing

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician: None under normal processing.

### **Section 5: FIRE FIGHTING MEASURES**

### 5.1. Extinguishing media

### Suitable extinguishing media:

Water.

#### Unsuitable extinguishing media:

High volume water jet. Dry powder. Sand. Foam.

### 5.2. Special hazards arising from the substance or mixture

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.

#### **Hazardous Combustion Products:**

Carbon oxides. Phosphorus oxides. Ammonia. Nitrogen oxides (NOx).

### 5.3. Advice for firefighters

Coordinate fire extinguishing measures to fire in surrounding area. In the event of fire and/or explosion do not breathe fumes. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray to cool fire exposed surfaces.

#### Hazchem code:

1Z

### **Section 6: ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Wear personal protective equipment. Evacuate personnel to

safe areas.

For Emergency Responders: Use personal protection recommended in Section 8.

#### 6.2. Environmental precautions

Do not allow product to enter the environment uncontrolled.

### 6.3. Methods and material for containment and cleaning up

**Methods for Containment:** Prevent further leakage or spillage if safe to do so.

Methods for Cleanup: Take up mechanically and collect in suitable container for disposal. If material is

uncontaminated, collect and reuse as recommended for product.

### 6.4. Reference to other sections

§ 8, 12, 13.

### **Section 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8.

When using, do not eat, drink or smoke.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions:

Keep container tightly closed in a dry and well-ventilated place. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well. Bags or Bulk.

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Packaging Materials:

### 7.3. Specific end use(s)

Specific use(s)

Fertilizer; Read and follow label instructions; www.everris.com

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Ammonium Nitrate; NH4NO3		
Australia TWA	N.A.	
Czech Republic OEL	10.0 mg/m³ TWA	
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>		
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m³ TWA	
Latvia - Occupational Exposure Limits - TWAs	10 mg/m³ TWA	
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O		
Belgium - 8 Hr TWA	1 mg/m <sup>3</sup>	
Denmark	TWA: 1 mg/m <sup>3</sup>	
Finland	TWA: 1 mg/m <sup>3</sup>	
Ireland	TWA: 1 mg/m <sup>3</sup>	
	STEL: 2 mg/m <sup>3</sup>	
Netherlands - OEL - MACs:	1 mg/m <sup>3</sup>	
Norway	TWA: 1 mg/m <sup>3</sup>	
	STEL: 1 mg/m <sup>3</sup>	
Portugal	TWA: 1 mg/m <sup>3</sup>	
Spain OEL - Time Weighted Average (TWA):	TWA: 1 mg/m <sup>3</sup>	
Switzerland	TWA: 1 mg/m <sup>3</sup>	
UK oes/mel:	TWA: 1 mg/m <sup>3</sup>	
Copper sulphate anh; CuSO <sub>4</sub>		
Austria	STEL 4 mg/m <sup>3</sup>	
	STEL 0.4 mg/m <sup>3</sup>	
	TWA: 1 mg/m <sup>3</sup>	
	TWA: 0.1 mg/m <sup>3</sup>	
Australia TWA	N.A.	
Finland	TWA: 1 mg/m <sup>3</sup>	
German mak	TWA: 0.01 mg/m <sup>3</sup>	
	Ceiling / Peak: 0.02 mg/m³	
Netherlands - OEL - MACs:	0.1 mg/kg TWA	
Poland	TWA: 0.2 mg/m <sup>3</sup>	
Russia TWA 0.5 mg/m³ TWA 1200		
Switzerland	STEL: 0.2 mg/m³	
	TWA: 0.1 mg/m <sup>3</sup>	
Manganese sulphate; MnSO <sub>4</sub> +1H <sub>2</sub> O	0751.0 ( 0	
Austria	STEL 2 mg/m³	
A	TWA: 0.5 mg/m³ 0.2 mg/m³	
Australia TWA	0.2 mg/m <sup>3</sup>	
Belgium - 8 Hr TWA Denmark	Ö	
Finland	TWA: 0.2 mg/m <sup>3</sup> TWA: 0.02 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>	
German mak	TWA: 0.02 mg/m³ TWA: 0.2 mg/m³  TWA: 0.2 mg/m³	
German mak	TWA: 0.2 mg/m <sup>3</sup>	
	Ceiling / Peak: 1.6 mg/m <sup>3</sup>	
	Ceiling / Peak: 1.0 mg/m <sup>3</sup>	
	Johnny / Fount of Formight	
Ireland	TWA: 0.2 mg/m <sup>3</sup>	
	STEL: 0.6 mg/m <sup>3</sup>	
Netherlands - OEL - MACs:	1 mg/m <sup>3</sup>	
Norway	TWA: 1 mg/m <sup>3</sup>	
	TWA: 0.1 mg/m <sup>3</sup>	
	STEL: 1 ppm	
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	STEL: 0.1 mg/m³
Poland	TWA: 0.2 mg/m³
Folaliu	TWA: 0.05 mg/m <sup>3</sup>
Portugal	TWA: 0.2 mg/m <sup>3</sup>
Spain OEL - Time Weighted Average (TWA):	TWA: 0.2 mg/m <sup>3</sup>
Sweden - OEL - 8 Hour	0.2 mg/m³ LLV (totalt)
Switzerland	TWA: 0.5 mg/m <sup>3</sup>
UK oes/mel:	TWA: 0.5 mg/m <sup>3</sup>
Manganese Oxide; MnO	
Austria	STEL 2 mg/m³ TWA: 0.5 mg/m³
Bulgaria - Occupational Exposure Limits - TWAs	0.3 mg/m³ TWA (as Mn)
Denmark	TWA: 0.2 mg/m <sup>3</sup>
Finland	TWA: 0.02 mg/m³ TWA: 0.2 mg/m³
German mak	TWA: 0.2 mg/m³
	TWA: 0.02 mg/m³
	Ceiling / Peak: 1.6 mg/m³ Ceiling / Peak: 0.16 mg/m³
	Ceiling / Feak. 0.10 mg/m
Ireland	TWA: 0.2 mg/m <sup>3</sup>
N.	STEL: 0.6 mg/m³
Norway	TWA: 1 mg/m <sup>3</sup>
	TWA: 0.1 mg/m³ STEL: 1 ppm
	STEL: 0.1 mg/m <sup>3</sup>
Poland	TWA: 0.2 mg/m <sup>3</sup>
· Olana	TWA: 0.05 mg/m <sup>3</sup>
Portugal	TWA: 0.2 mg/m <sup>3</sup>
Spain OEL - Time Weighted Average (TWA):	TWA: 0.2 mg/m <sup>3</sup>
Sweden - OEL - 8 Hour	0.2 mg/m³ LLV (totalt)
Switzerland	TWA: 0.5 mg/m <sup>3</sup>
UK oes/mel:	TWA: 0.5 mg/m <sup>3</sup>
Zinc oxide; ZnO	
Austria	TWA: 5 mg/m³
Australia TWA	5 mg/m³ TWA
Belgium - 8 Hr TWA	10 mg/m³ TWA 5.0 mg/m³ TWA (as Zn)
Bulgaria - Occupational Exposure Limits - TWAs Croatia - Occupational Exposure Limits - STELs (KGVIs)	10 mg/m³ STEL [KGVI]
Czech Republic OEL	2 mg/m³ TWA (as Zn)
Denmark	TWA: 4 mg/m <sup>3</sup>
Greece - OEL	5 mg/m³ TWA (fume)
Iceland - OEL - 8 Hour	4 mg/m³ TWA Zn
Japan - TWAs	4 mg/m³ OEL
	1 mg/m³ OEL
Finland	TWA: 2 mg/m <sup>3</sup>
	STEL: 10 mg/m <sup>3</sup>
France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 5 mg/m <sup>3</sup>
Cormon mak	TWA: 10 mg/m³ TWA: 0.1 mg/m³
German mak	TWA: 2 mg/m <sup>3</sup>
	Ceiling / Peak: 0.4 mg/m <sup>3</sup>
	Ceiling / Peak: 4 mg/m <sup>3</sup>
Hungary - Occupational Exposure Limits - TWAs	5 mg/m³ TWA
Ireland	TWA: 2 mg/m <sup>3</sup>
	STEL: 10 mg/m <sup>3</sup>
Korea - ISHA - Occupational Exposure Limits - TWAs	2 mg/m³ TWA (dust, respirable fraction, Serial No. 275); 5 mg/m³ TWA (fume, Serial No. 276)
Korea - ISHA - Occupational Exposure Limits - STELs	10 mg/m³ STEL (fume, Serial No. 276)
Latvia - Occupational Exposure Limits - TWAs	0.5 mg/m³ TWA
Malaysia - Occupational Exposure Limits - 5 mg/m³ TWA (fume); 10	mg/m³ TWA (dust)
TWAs	TM = / 0
Norway	TWA: 5 mg/m <sup>3</sup>
Poland	STEL: 10 mg/m³  STEL: 10 mg/m³
Poland	TWA: 5 mg/m <sup>3</sup>
Portugal	STEL: 10 mg/m³
<del></del>	TWA: 2 mg/m <sup>3</sup>
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Romania - Occupational Exposure Limits - TWAs	5 mg/m³ TWA (fume)	
Russia TWA	0.5 mg/m³ TWA 2271	
Slovenia - Occupational Exposure Limits - TWAs	5 mg/m³ TWA (respirable fraction, fume)	
Spain OEL - Time Weighted Average (TWA):	STEL: 10 mg/m³	
,	TWA: 2 mg/m³	
Sweden - OEL - 8 Hour	5 mg/m³ LLV	
Switzerland	STEL: 3 mg/m <sup>3</sup>	
	TWA: 3 mg/m <sup>3</sup>	
Zinc sulphate mono hydrate; ZnSO4+1H2O		
German mak	TWA: 0.1 mg/m <sup>3</sup>	
	TWA: 2 mg/m³	
	Ceiling / Peak: 0.4 mg/m³	
	Ceiling / Peak: 4 mg/m <sup>3</sup>	
Copper (I) Oxide; Cu <sub>2</sub> O	OTT	
Austria	STEL 4 mg/m³	
	STEL 0.4 mg/m³	
	TWA: 1 mg/m <sup>3</sup>	
Finland	TWA: 0.1 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	
Finiand German mak	TWA: 0.01 mg/m <sup>3</sup>	
German mak	Ceiling / Peak: 0.02 mg/m <sup>3</sup>	
Poland	TWA: 0.2 mg/m³	
Switzerland	STEL: 0.2 mg/m <sup>3</sup>	
Switzerialiu	TWA: 0.1 mg/m <sup>3</sup>	
Sodium borate; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	TWA. 6.1 mg/m	
Australia TWA	1 mg/m³ TWA	
Belgium - 8 Hr TWA	2 mg/m³ TWA borate	
Denmark	TWA: 1 mg/m³	
Greece - OEL	10 mg/m³ TWA	
Iceland - OEL - 8 Hour	1 mg/m³ TWA	
France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 1 mg/m <sup>3</sup>	
Ireland	TWA: 1 mg/m <sup>3</sup>	
	STEL: 3 mg/m <sup>3</sup>	
Korea - ISHA - Occupational Exposure Limits - TWAs	1 mg/m <sup>3</sup> TWA (anhydrous, Serial No. 239)	
Malaysia - Occupational Exposure Limits - 1 mg/m³ TWA TWAs		
Norway	TWA: 1 mg/m <sup>3</sup>	
,	STEL: 3 mg/m <sup>3</sup>	
Portugal	STEL: 6 mg/m <sup>3</sup>	
	TWA: 2 mg/m <sup>3</sup>	
Spain OEL - Time Weighted Average (TWA):	STEL: 6 mg/m <sup>3</sup>	
. ,	TWA: 2 mg/m <sup>3</sup>	
Switzerland	TWA: 1 mg/m <sup>3</sup>	
UK oes/mel:	STEL: 3 mg/m <sup>3</sup>	
	TWA: 1 mg/m <sup>3</sup>	

### **Derived No Effect Level (DNEL)**

No data available

### **Predicted No Effect Concentration (PNEC)**

No data available.

### 8.2. Exposure controls

**Engineering Measures to Reduce** Ensure adequate ventilation, especially in confined areas.

Exposure:

### Personal protective equipment

Eye/Face Protection:

Tightly fitting safety goggles Nitrile rubber (0.26 mm). Break through time. > 8 h. Hand protection:

Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment.

Skin and Body Protection: Lightweight protective clothing

Hygiene Measures: Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away

from food, drink and animal feeding stuffs.

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

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State: Solid Appearance: Granules

Color: brown, white, yellow, grey, green.

Odor:Not significantBulk density:938 - 1088 kg/m³pH:no data availableMelting Point/Freezing Point:no data availableBoiling Point/Range:Solid, Not Applicab

Solid, Not Applicable Flash Point: Solid, Not Applicable Solid, Not Applicable **Evaporation Rate:** Flammability (solid, gas): Non-flammable **Vapor Pressure:** Solid, Not Applicable Vapor Density: Solid, Not Applicable **Specific Gravity:** no data available Water Solubility: Soluble in water Solubility(ies) no data available Solid, Not Applicable **Partition Coefficient:** Not Applicable **Autoignition Temperature:** 

**Explosive Properties:** Doesn't present explosion hazard. Based on data of ingredients.

no data available

#### 9.2. Other information

**Decomposition Temperature:** 

Not applicable

### Section 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

Not reactive.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous Decomposition Products:** 

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### **Possibility of Hazardous Reactions:**

None under normal processing.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

None under normal processing.

### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

Acute Toxicity

Product Information:

**Inhalation:** May cause irritation of respiratory tract.

**Eye Contact:** Causes serious eye damage.

**Skin Contact:** May cause irritation.

**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Unknown Acute Toxicity:** 4% of the mixture consists of ingredient(s) of unknown toxicity.

#### The following values are calculated based on chapter 3.1 of the GHS document:

**ATEmix (oral):** 33,249.00 mg/kg

Skin Corrosion or Irritation See also section 3.

Serious Eye Damage or Eye IrritationSee also section 3.SensitizationSee also section 3.Mutagenic effectsSee also section 3.

Carcinogenicity The table below indicates whether each agency has listed any

ingredient as a carcinogen.

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**Reproductive Toxicity** 

Chemical Name	EU - GHS - SV - CLP (1272/2008) - Reproductive Toxicity	
Sodium borate; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	Reproductive Toxicity - Repr. 1B: H360FD May damage fertility. May	
	damage the unborn child. (C >= 4.5 %)	
Teratogenicity	No known effects under normal use conditions.	
STOT - Single Exposure-Category 3 (H335)	No known effects under normal use conditions.	
STOT - Repeated Exposure	None under normal use conditions.	
Aspiration Hazard	None under normal use.	

### **Section 12: ECOLOGICAL INFORMATION**

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

10% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ammonium Nitrate; NH4NO3		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	653: 96 h Lepomis macrochirus	890: 48 h Daphnia magna mg/L
	subspicatus mg/L EC50	mg/L LC50 3550: 96 h Lepomis	EC50
		macrochirus mg/L LC50 static	
		510 - 880: 96 h Pimephales	
		promelas mg/L LC50 static	
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O		925: 96 h Poecilia reticulata mg/L	, , ,
		LC50 static 0.56: 96 h Cyprinus	EC50 6.15 - 9.26: 48 h Daphnia
		carpio mg/L LC50 semi-static	magna mg/L EC50 Static
Copper sulphate anh; CuSO <sub>4</sub>		0.1: 96 h Oncorhynchus mykiss	0.024: 48 h Daphnia magna mg/L
		mg/L LC50	EC50
Copper (I) Oxide; Cu <sub>2</sub> O	65: 96 h Desmodesmus		0.51: 48 h Daphnia magna mg/L
	subspicatus mg/L EC50 0.021 -		EC50
	0.037: 96 h Pseudokirchneriella		
	subcapitata mg/L EC50 0.055 -		
	0.076: 96 h Pseudokirchneriella		
	subcapitata mg/L EC50 static		
Sodium borate; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	158: 96 h Desmodesmus	340: 96 h Limanda limanda mg/L	1085 - 1402: 48 h Daphnia magna
	subspicatus mg/L	LC50	mg/L LC50

### 12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Component	LOGPOW	
Ammonium Nitrate; NH₄NO₃	-3.1	
6484-52-2 ( 30 - 60% )		

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available

### **Section 13: DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

**Disposal of Wastes:** Disposal should be in accordance with applicable regional,

national and local laws and regulations.

Do not re-use empty containers. Dispose of as unused product. **Contaminated Packaging:** Other Information:

Use up product completely. Packaging material is industrial

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waste.

**Section 14: TRANSPORT INFORMATION** 

Hazchem code: 1Z

IMO / IMDG

14.1

UN-No: 2071

14.2

Proper shipping name: AMMONIUM NITRATE BASED FERTILIZER

14.3

**Hazard Class:** 9

14.4

Packing group: Ш

14.5

**IMDG - Marine Pollutants** Component

Copper sulphate anh; CuSO4 IMDG regulated marine pollutant (Listed in the index, 7758-98-7 ( 0.1 - 1% ) listed under Copper sulphate, anhydrous, hydrates and solution)

Not regulated **Marine Pollutant:** 

14.6

EmS: F-H/S-Q **Special Provisions** 186, 193

14.7

Transport in bulk according to Annex II of MARPOL 73/78 Not regulated

and the IBC Code

ADR/RID

14.1 UN-No: 2071

14.2

AMMONIUM NITRATE BASED FERTILIZER Proper shipping name:

14.3

**Hazard Class:** 9

14.4

Packing group: Ш

14.5

**Environmental Hazard** Not regulated

14.6

**Special Provisions** 186, 193

IATA 14.1

UN-No: 2071

14.2

AMMONIUM NITRATE BASED FERTILIZER Proper shipping name:

14.3

**Hazard Class:** 9

14.4

Packing group: Ш

14.5

**Environmental Hazard** Not regulated

14.6

**Special Provisions** A89, A90 \_\_\_\_\_

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## **Section 15: REGULATORY INFORMATION**

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

### **REACH:**

Component	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Ammonium Nitrate; NH4NO3	Use restricted. See item 58. (Conditions of restrictions 27 June 2010)
6484-52-2 ( 30 - 60% )	
Sodium borate; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	Use restricted. See item 30.
1330-43-4 ( < 0.1% )	

No data available

### National regulations

Belgium

Component	Belgium - Major Accidents - Qualifying	Belgium - Major Accidents - Qualifying
	Quantities for Safety Reporting	Quantities for Accident Prevention
Ammonium Nitrate; NH₄NO₃	2500 tonne (Note 3, applies to Ammonium	350 tonne (Note 3, applies to Ammonium
6484-52-2 ( 30 - 60% )	nitrate in which the Nitrogen content due to	nitrate in which the Nitrogen content due to
	Ammonium nitrate is >28% by weight	Ammonium nitrate is >28% by weight
	containing <=0.2 % combustible material,	containing <=0.2 % combustible material,
	>24.5% and <28% by weight containing	>24.5% and <28% by weight containing
	<=0.4% combustible material and to	<=0.4% combustible material and to aqueous
	aqueous Ammonium nitrate solutions in	Ammonium nitrate solutions in which the
	which the concentration of Ammonium nitra	te concentration of Ammonium nitrate is >80%
	is >80% by weight)	by weight)

<u>Denmark</u>

Danish Sikkerhedsgruppe Not regulated

<u>France</u>

ICPE Not regulated

Germany

Component	German WGK Section
Ammonium Nitrate; NH <sub>4</sub> NO <sub>3</sub>	class 1
6484-52-2 ( 30 - 60% )	
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	class 1
7778-80-5 ( 10 - 30% )	
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	class 1
7720-78-7 ( 0.1 - 1% )	
Copper sulphate anh; CuSO <sub>4</sub>	class 2
7758-98-7 ( 0.1 - 1% )	
Manganese sulphate; MnSO <sub>4</sub> +1H <sub>2</sub> O	class 1
7785-87-7 ( 0.1 - 1% )	
Zinc oxide; ZnO	class 2
1314-13-2 ( < 0.1% )	
Zinc sulphate mono hydrate; ZnSO <sub>4</sub> +1H <sub>2</sub> O	class 3
7446-19-7 ( < 0.1% )	
Copper (I) Oxide; Cu <sub>2</sub> O	class 3
1317-39-1 ( < 0.1% )	
Sodium borate; Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	class 1
1330-43-4 ( < 0.1% )	

#### **European Union**

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

### 15.2 Chemical safety assessment

Not required. Substance(s) usage is covered according to Reach regulation 1907/2006.

### **Section 16: OTHER INFORMATION**

#### Full text of H-Statements referred to under sections 2 and 3

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H272 - May intensify fire; oxidizer

H318 - Causes serious eye damage

H315 - Causes skin irritation

H373 - May cause damage to the kidneys/ liver/ eyes/ brain/ respiratory system/ central nervous system through prolonged or repeated exposure in contact with skin

H411 - Toxic to aquatic life with long lasting effects

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

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 statement: CLP (EU) specific hazard statement.

Classification procedure: - Calculation method

- Expert judgment and weight of evidence determination

Revision Date: 13-Jul-2016

Key literature references and sources for data

According to EC Regulation 1907/2006 (Reach), Regulation EU

No. 2015/830. Regulation (EC) No 1272/2008.

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### This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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**End of Safety Data Sheet**