# **Safety Data Sheet**

Revision Date 09-Oct-2019 Version: 4

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

1.1. Product identifier

Product Name Osmocote Topdress FT 22-5-6+2MgO+TE

Product Code: 41610225EC
Pure substance/mixture Mixture.

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

Recommended Use Fertilizer (PC12). Restricted to professional users.

Uses Advised Against: Consumer use [SU 21].

1.3. Details of the supplier of the safety data sheet

Everris International B.V.Nijverheidsweg 1-5; 6422 PD Heerlen (NL); Tel: +31 (0)45-5609100; Fax: +31 (0)45-5609190.

For further information, please contact: INFO-MSDS@EVERRIS.COM.

1.4. Emergency telephone number: IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24h).

# **Section 2: HAZARDS IDENTIFICATION**

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

Mixture

Regulation (EC) No 1272/2008 (CLP)

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Signal Word: None

#### **EU Specific Hazard Statements:**

EUH210 - Safety data sheet available on request

#### Other hazards (UN-GHS)

H316 - Causes mild skin irritation

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Chemical Name	EC-No.	CAS No	Weight %	Classification according Regulation (EC) 1272/2008 [CLP]	REACH registration number
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	229-347-8	6484-52-2	25 - 40%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
Urea	200-315-5	57-13-6	25 - 40%	Not classified	01-2119463277-33
Sulphur; S	231-722-6	7704-34-9	1 - 5%	Skin Irrit. 2 (H315)	01-2119487295-27
Magnesium oxide; MgO	215-171-9	1309-48-4	1 - 5%	Not classified	Exempt

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 If not breathing, give artificial respiration. If symptoms persist, call a physician. If fumes from

reactions are inhaled, move to fresh air immediately.

**Skin Contact:** If skin irritation persists, call a physician.

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. 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.

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

None under normal processing

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

None under normal processing.

# **Section 5: FIRE FIGHTING MEASURES**

5.1. Extinguishing media

Suitable Extinguishing Media: Coordinate fire extinguishing measures to fire in surrounding

area.

Unsuitable Extinguishing Media: High volume water jet.

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

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

## 5.3. Advice for firefighters

Use extinguishing agent suitable for type of surrounding fire. In the event of fire and/or explosion do not breathe fumes. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## 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 material to contaminate ground water system.

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.

## 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.

## Osmocote Topdress FT 22-5-6+2MgO+TE

## 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 packaging should be closed

well. Keep away from flammable material.

Store in original container. Store in a closed container. Packaging Materials: LGK (Germany)

Exempt

## 7.3. Specific end use(s)

Specific use(s) Fertilizer; www.everris.com; Read and follow label instructions Exposure scenario Mixture. Not required.

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

#### 8.1. Control parameters

Ammonium nitrate; NH4NO3			
Australia	N.A.		
Czech Republic OEL	10.0 mg/m³ TWA		
Urea			
Bulgaria - OEL- TWAs	10.0 mg/m³ TWA		
Latvia - OEL - TWAs	10 mg/m³ TWA		
Sulphur; S			
Latvia - OEL - TWAs	6 mg/m³ TWA		
Russia TWA	6 mg/m³ TWA 1863		
Magnesium oxide; MgO			
Austria	STEL 10 mg/m <sup>3</sup>		
	TWA: 5 mg/m <sup>3</sup>		
Australia	10 mg/m³ TWA fume		
Belgium - 8 Hr TWA	10 mg/m <sup>3</sup>		
Bulgaria - OEL- TWAs	10.0 mg/m³ TWA		
Czech Republic OEL	5 mg/m³ TWA		
Denmark	TWA: 6 mg/m <sup>3</sup>		
FR - OEL - 8h VMEs	TWA: 10 mg/m <sup>3</sup>		
Hungary - OEL - TWAs	6 mg/m³ TWA		
Iceland - OEL - 8 Hour	6 mg/m³ TWA Mg		
Ireland TWA: 4 mg/m <sup>3</sup>			
	STEL: 10 mg/m <sup>3</sup>		
Korea - ISHA - OEL - TWAs	10 mg/m³ TWA (Serial No. 277)		
Malaysia	10 mg/m³ TWA (fume)		
Norway	TWA: 10 mg/m <sup>3</sup>		
	STEL: 20 mg/m <sup>3</sup>		
Poland	TWA: 10 mg/m <sup>3</sup>		
Portugal	TWA: 10 mg/m <sup>3</sup>		
Romania - OEL - TWAs	5 mg/m³ TWA (fume)		
Spain - Valores Limite Ambientales - VLE	TWA: 10 mg/m <sup>3</sup>		
Singapore - OEL:PELs	10 mg/m³ PEL		
Switzerland	TWA: 3 mg/m <sup>3</sup>		
UK EH40 WEL (8h)	10 mg/m <sup>3</sup>		

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

Component	Oral	Dermal	Inhalation
Ammonium nitrate; NH4NO3	36 mg/m <sup>3</sup>	5.12 mg/kg bw/day	8.9 mg/m <sup>3</sup>
6484-52-2 ( 25 - 40% )			
Urea		580 mg/kg bw/day	292 mg/m <sup>3</sup>
57-13-6 ( 25 - 40% )			_

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

No data available

Component	Fresh Water	Freshwater sediment	Sea Water	Sea sediment	Soil	Impact on Sewage
						Treatment

Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>				18 mg/l
6484-52-2 ( 25 - 40% )				
Urea	0.47 mg/l	0.047 mg/l		
57-13-6 ( 25 - 40% )				

## 8.2. Exposure controls

Personal protective equipment

**Eye/Face Protection** Wear eye/face protection

Hand protection Gloves. Nitrile rubber (0.26 mm). Break through time. > 8 h.

Respiratory Protection Not required; except in case of aerosol formation. In case of mist, spray or aerosol

exposure wear suitable personal respiratory protection and protective suit

**Skin and body protection:** Lightweight protective clothing

**Hygiene Measures:** When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding

stuffs.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State:SolidAppearance:GranulesOdor:None

**Bulk density:** 877 - 1027 kg/m<sup>3</sup> **Melting Point/Freezing Point:** No data available Boiling Point/Range: Solid. Not applicable. Flash Point: Solid. Not applicable. Solid. Not applicable. **Evaporation Rate:** Flammability (solid, gas): Not flammable Vapor Pressure: Solid. Not applicable. Vapour density Solid. Not applicable. Relative density No data available Water Solubility: No data available Solubility(ies) No data available **Partition Coefficient:** Solid. Not applicable. **Autoignition Temperature:** No data available

**Explosive Properties:** Doesn't present explosion hazard.

9.2. Other information

**Decomposition temperature:** 

VOC Content (%): Solid. Not applicable.

# **Section 10: STABILITY AND REACTIVITY**

No data available

#### 10.1. Reactivity

Not reactive.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

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

## 10.6. Hazardous decomposition products

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

# Section 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

#### **Product Information**

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

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

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

**Eye contact** May cause slight irritation.

**Skin Contact** May cause irritation.

**Ingestion** May cause gastrointestinal discomfort if consumed in large amounts.

#### Information on Toxicological Effects

None known
Acute Toxicity

Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium nitrate; NH₄NO₃	= 2217 mg/kg (Rat)	> 5000 mg/kg	> 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
Magnesium oxide; MgO	= 3870 mg/kg (Rat) =		
	3990 mg/kg (Rat)		

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

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

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**

12.1. Toxicity
Ecotoxicity

**Unknown Aquatic Toxicity** 

Should not be released into the environment 4% of the mixture consists of components(s) of unknown hazards

to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Ammonium nitrate;	-	65 - 85: 48 h Cyprinus	-	•

NH4NO3		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	-	-

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Does not bioaccumulate. Bioaccumulation:

Chemical Name	LOGPOW
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	-3.1
Urea	-1.59

No data available. 12.4. Mobility in soil

12.5. PBT and vPvB assessment No data available.

No data available. 12.6. Other adverse effects

# **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.

**Contaminated Packaging:** Do not reuse container.

Other Information Use up product completely. Packaging material is industrial waste.

# Section 14: TRANSPORT INFORMATION

Not regulated

## IMO / IMDG

14.1

UN-No: Not regulated

14.2

Proper shipping name: Not regulated

14.3 **Hazard Class:** 

14.4

Packing group:

Not regulated 14.5

No information available **Marine Pollutant:** 

14.6

**Special Provisions** None

14.7

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

# ADR/RID

14.1

UN-No: Not regulated

14.2

Proper shipping name: Not regulated

14.3

Hazard Class: Not regulated

<u>14.4</u>

Packing group: Not regulated

14.5

Environmental Hazard Not regulated

14.6

Special Provisions None

IATA

14.1 UN-No: Not regulated

14.2

Proper shipping name: Not regulated

14.3

Hazard Class: Not regulated

<u>14.4</u>

Packing group: Not regulated

<u>14.5</u>

Environmental Hazard Not regulated

14.6

Special Provisions None

# **Section 15: REGULATORY INFORMATION**

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

## **Belgium**

Component	, , ,	Belgium - Major Accidents - Qualifying
	Quantities for Safety Reporting	Quantities for Accident Prevention
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	2500 tonne (technical grade; (a) this applies	350 tonne
6484-52-2 ( 25 - 40% )	to Ammonium nitrate in which the Nitrogen	
	content as a result of Ammonium nitrate is (i)	
	between 24.5% and 28% by weight and	
	which contain <=0.4% total combustible or	
	(ii) >28% by weight and which contain	
	<=0.2% combustible substances (b) aqueous	
	Ammonium nitrate solutions in which the	
	concentration of Ammonium nitrate is >80%	
	by weight)	

Denmark

Denmark No data available

**France** 

ICPE No data available

**Germany** 

LGK (Germany) Exempt

Water Endangering Class (WGK): 1 (Everris classification)

Gefahrstoffverordnung (Germany) TRGS 511 C III

Component	German WGK Section
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2 ( 25 - 40% )	1
Urea	1
57-13-6 ( 25 - 40% )	
Sulphur; S	class 1
7704-34-9 ( 1 - 5% )	
Magnesium oxide; MgO	1
1309-48-4 ( 1 - 5% )	

	, , ,	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2 ( 25 - 40% )	Present (in concentration of 16% by weight of Nitrogen in relation to Ammonium nitrate or higher)	Use restricted. See item 58. (Conditions of restrictions 27 June 2010)

#### 15.2 Chemical safety assessment

Substance(s) usage is covered according to Reach regulation 1907/2006

Take note of Dir. 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work

Chemical Name	Restricted substance per REACH Annex	Substance subject to authorization per
	XVII	REACH Annex XIV
Ammonium nitrate; NH4NO3	Use restricted. See item 58.	

Chemical Name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
	350	2500
Ammonium nitrate; NH₄NO₃		

# **Section 16: OTHER INFORMATION**

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

- H319 Causes serious eye irritation
- H272 May intensify fire; oxidizer
- H315 Causes skin irritation
- H316 Causes mild skin irritation

#### 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 phrase: CLP (EU) specific hazard statement

LD50: Lethal dose, 50%.

LC50: Lethal concentration, 50%. SVHC: Substance of Very High Concern.

Classification procedure

Calculation method

• Expert judgment and weight of evidence determination

Key literature references and sources for data

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

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

Prepared by Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

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**Reason for revision**\*\*\* Indicates changes since the last revision. This version replaces all previous versions

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