Safety Data Sheet

Issue Date 24-Mar-2014 **Revision Date** 26-Sep-2019 **Version:** 3

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

1.1. Product identifier

Product Name: **Osmocote Topdess 22-5-6+2MgO+TE**
Product Code: **41610225EA**
Synonyms: **Osmocote Topdress 22-2.2-5+1.2Mg+TE**
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_4NO_3	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
Diiron trioxide; Fe_2O_3	215-721-8	1345-25-1	1 - 5%	Not classified	01-2119638146-39
Magnesium oxide; MgO	215-171-9	1309-48-4	1 - 5%	Not classified	Exempt
Calcium sulphate dihydrate; $CaSO_4+2H_2O$	231-900-3	10101-41-4	0.1 - 1%	Not classified	01-2119444918-26
Manganese sulphate; $MnSO_4+1H_2O$	232-08-99	7785-87-7	0.1 - 1%	STOT RE 2 (H373)	01-2119456624-35

				Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	
Calcium carbonate; $CaCO_3$	207-439-9	471-34-1	0.1 - 1%	Not classified	Exempt
Manganese oxide; MnO	215-202-6	1344-43-0	0.1 - 1%	Not classified	01-2119446291-44
Zinc sulphate mono hydrate; $ZnSO_4+1H_2O$	231-793-3	7446-19-7	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_2O	215-270-7	1317-39-1	< 0.1%	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119513794-36

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 In case of shortness of breath, give oxygen. Possible symptoms are coughing and/or dyspnoea. Move to fresh air. If symptoms persist, call a physician.

Skin Contact: If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

Ingestion: Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. In case of respiratory difficulties practice oxygenotherapy. Possible symptoms are nausea and/or vommiting.

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. Use dry chemical, CO2, water spray or "alcohol" foam.

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. Avoid dust formation. Use personal protective equipment.
For Emergency Responders: Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent product from entering drains. Do not contaminate surface water.

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: Shovel or sweep up. Do not create a powder cloud by using a brush or compressed air.

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 away from heat and sources of ignition. Keep away from food, drink and animal feeding stuffs. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used packaging should be closed well. Keep at temperatures between 0 °C and 40 °C.

Packaging Materials: Store in original container. Store in a closed container.

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; NH_4NO_3	
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
Diiron trioxide; Fe_2O_3	
Austria	STEL 20 mg/m³ TWA: 5 mg/m³ TWA: 10 mg/m³
greece OEL 15 minute	10 mg/m³ STEL Fe
Hungary - OEL - TWAs	6 mg/m³ TWA
Japan - TWAs	1 mg/m³ OEL 4 mg/m³ OEL
Poland	STEL: 10 mg/m³ STEL: 5 mg/m³ TWA: 5 mg/m³ TWA: 2.5 mg/m³
Switzerland	TWA: 3 mg/m³
UK EH40 WEL (8h)	1 mg/m³ TWA
Magnesium oxide; MgO	
Austria	STEL 10 mg/m³ TWA: 5 mg/m³
Australia	10 mg/m³ TWA fume

Belgium - 8 Hr TWA	10 mg/m³
Bulgaria - OEL- TWAs	10.0 mg/m³ TWA
Czech Republic OEL	5 mg/m³ TWA
Denmark	TWA: 6 mg/m³
France - OEL - 8 Hour VMEs	TWA: 10 mg/m³
Hungary - OEL - TWAs	6 mg/m³ TWA
Iceland - OEL - 8 Hour	6 mg/m³ TWA Mg
Ireland	TWA: 4 mg/m³ STEL: 10 mg/m³
Korea - ISHA - OEL - TWAs	10 mg/m³ TWA (Serial No. 277)
Malaysia - OEL - TWAs	10 mg/m³ TWA (fume)
Norway	TWA: 10 mg/m³ STEL: 20 mg/m³
Poland	TWA: 10 mg/m³
Portugal	TWA: 10 mg/m³
Romania - OEL - TWAs	5 mg/m³ TWA (fume)
Spain OEL - TWA:	TWA: 10 mg/m³
Singapore - OEL:PELs	10 mg/m³ PEL
Switzerland	TWA: 3 mg/m³
UK EH40 WEL (8h)	10 mg/m³
Calcium sulphate dihydrate; $CaSO_4+2H_2O$	
Belgium - 8 Hr TWA	10 mg/m³ TWA
Portugal	TWA: 10 mg/m³
Spain OEL - TWA:	TWA: 10 mg/m³
Switzerland	TWA: 3 mg/m³
UK EH40 WEL (8h)	10 mg/m³ TWA (Inhalable) 4 mg/m³ TWA (Respirable)
Manganese sulphate; $MnSO_4+1H_2O$	
Austria	STEL 2 mg/m³ TWA: 0.5 mg/m³
Australia	0.2 mg/m³
Belgium - 8 Hr TWA	0.2 mg/m³
Denmark	TWA: 0.2 mg/m³
Finland	TWA: 0.02 mg/m³ TWA: 0.2 mg/m³
Ireland	TWA: 0.2 mg/m³ STEL: 0.6 mg/m³
Japan - TWAs	0.2 mg/m³ OEL Mn
Netherlands National MAC Data - TWA:	STEL: 0.05 mg/m³ TWA: 0.2 mg/m³
Norway	TWA: 0.1 mg/m³ STEL: 0.1 ppm
Poland	TWA: 0.05 mg/m³
Portugal	TWA: 0.2 mg/m³
Spain OEL - TWA:	TWA: 0.2 mg/m³ TWA: 0.05 mg/m³
Switzerland	TWA: 0.5 mg/m³
UK EH40 WEL (8h)	5 mg/m³
Calcium carbonate; $CaCO_3$	
Australia	10 mg/m³ TWA inhalable dust
Czech Republic OEL	10.0 mg/m³ TWA
France - OEL - 8 Hour VMEs	TWA: 10 mg/m³
Korea - ISHA - OEL - TWAs	10 mg/m³ TWA (Serial No. 572)
Latvia - OEL - TWAs	6 mg/m³ TWA
Poland	TWA: 10 mg/m³
Portugal	TWA: 10 mg/m³
Switzerland	TWA: 3 mg/m³
UK EH40 WEL (8h)	10 mg/m³ TWA (inhalable) 4 mg/m³ TWA (respirable)
Manganese oxide; MnO	
Austria	STEL 2 mg/m³ TWA: 0.5 mg/m³
Bulgaria - OEL- TWAs	0.3 mg/m³ TWA (as Mn)
Denmark	TWA: 0.2 mg/m³ TWA: 0.05 mg/m³
Finland	TWA: 0.02 mg/m³ TWA: 0.2 mg/m³
Ireland	TWA: 0.2 mg/m³ TWA: 0.05 mg/m³

	STEL: 0.6 mg/m³ STEL: 0.15 mg/m³
Japan - TWAs	0.2 mg/m³ OEL Mn
Netherlands National MAC Data - TWA:	STEL: 0.05 mg/m³ TWA: 0.2 mg/m³
Norway	TWA: 0.1 mg/m³ STEL: 0.1 ppm
Poland	TWA: 0.05 mg/m³
Portugal	TWA: 0.2 mg/m³
Spain OEL - TWA:	TWA: 0.2 mg/m³ TWA: 0.05 mg/m³
Switzerland	TWA: 0.5 mg/m³
Zinc oxide; ZnO	
Austria	TWA: 5 mg/m³
Australia	5 mg/m³ TWA
Belgium - 8 Hr TWA	10 mg/m³ TWA
Bulgaria - OEL- TWAs	5.0 mg/m³ TWA (as Zn)
Croatia - OEL - STELs (KGVIs)	10 mg/m³ STEL [KGVI]
Czech Republic OEL	2 mg/m³ TWA (as Zn)
Denmark	TWA: 4 mg/m³
Finland	TWA: 2 mg/m³ STEL: 10 mg/m³
France - OEL - 8 Hour VMEs	TWA: 5 mg/m³ TWA: 10 mg/m³
greece OEL 15 minute	10 mg/m³ STEL
Hungary - OEL - TWAs	5 mg/m³ TWA
Iceland - OEL - 8 Hour	4 mg/m³ TWA Zn
Ireland	TWA: 2 mg/m³ STEL: 10 mg/m³
Japan - TWAs	1 mg/m³ OEL
Korea - ISHA - OEL - TWAs	2 mg/m³ TWA (dust, respirable fraction, Serial No. 280); 5 mg/m³ TWA (fume, Serial No. 281)
Latvia - OEL - TWAs	0.5 mg/m³ TWA
Malaysia - OEL - TWAs	5 mg/m³ TWA (fume); 10 mg/m³ TWA (dust)
Norway	TWA: 5 mg/m³ STEL: 10 mg/m³
Poland	STEL: 10 mg/m³ TWA: 5 mg/m³
Portugal	STEL: 10 mg/m³ TWA: 2 mg/m³
Romania - OEL - TWAs	5 mg/m³ TWA (fume)
Russia TWA	0.5 mg/m³ TWA 2360
Slovenia - OEL - TWAs	5 mg/m³ TWA (respirable fraction, fume)
Spain OEL - TWA:	STEL: 10 mg/m³ TWA: 2 mg/m³
Singapore - OEL:PELs	5 mg/m³ PEL 10 mg/m³ PEL
Switzerland	STEL: 3 mg/m³ TWA: 3 mg/m³
UK EH40 WEL (8h)	5 mg/m³ TWA
Copper (I) oxide; Cu_2O	
Austria	STEL 4 mg/m³ STEL 0.4 mg/m³ TWA: 1 mg/m³ TWA: 0.1 mg/m³
Finland	TWA: 0.02 mg/m³
Poland	TWA: 0.2 mg/m³
Switzerland	STEL: 0.2 mg/m³ TWA: 0.1 mg/m³

Derived No Effect Level (DNEL)

Component	Oral	Dermal	Inhalation
Ammonium nitrate; NH_4NO_3 6484-52-2 (25 - 40%)	36 mg/m³	5.12 mg/kg bw/day	8.9 mg/m³
Urea 57-13-6 (25 - 40%)		580 mg/kg bw/day	292 mg/m³

Manganese sulphate; $MnSO_4+1H_2O$ 7785-87-7 (0.1 - 1%)	37.6 mg/m³	0.004 mg/kg bw/day	0.2 mg/m³
Zinc sulphate mono hydrate; $ZnSO_4+1H_2O$ 7446-19-7 (0.1 - 1%)		8.3 mg/kg bw/day	1 mg/m³

Predicted No Effect Concentration (PNEC)

Component	Fresh Water	Freshwater sediment	Sea Water	Sea sediment	Soil	Impact on Sewage Treatment
Ammonium nitrate; NH_4NO_3 6484-52-2 (25 - 40%)						18 mg/l
Urea 57-13-6 (25 - 40%)	0.47 mg/l		0.047 mg/l			
Manganese sulphate; $MnSO_4+1H_2O$ 7785-87-7 (0.1 - 1%)	0.013 mg/l	0.011 mg/kg	0 mg/l	0.001 mg/kg	25.1 mg/kg	25.1 mg/kg
Zinc sulphate mono hydrate; $ZnSO_4+1H_2O$ 7446-19-7 (0.1 - 1%)	20.6 µg/l		6.1 µg/l	56.5 mg/kg	35.6 mg/kg	100 µg/l

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: Follow good housekeeping practices. 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: Solid
Appearance: Granules
Color: brown.
Odor: None
Bulk density: 800 - 1100 kg/m³
Melting Point/Freezing Point: No data available
Boiling Point/Range: Solid. Not applicable.
Flash Point: Solid. Not applicable.
Evaporation Rate: Solid. Not applicable.
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
Decomposition temperature: No data available
Explosive Properties: Doesn't present explosion hazard.

9.2. Other information

VOC Content (%): Solid. Not applicable.

Section 10: STABILITY AND REACTIVITY

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
Keep away from open flames, hot surfaces and sources of ignition.

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; NH_4NO_3	= 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
Diiron trioxide; Fe_2O_3	> 15 g/kg (Rat)		
Magnesium oxide; MgO	= 3870 mg/kg (Rat) = 3990 mg/kg (Rat)		
Manganese sulphate; $MnSO_4+1H_2O$	= 2125 mg/kg (Rat)		> 4.98 mg/L (Rat) 4h
Calcium carbonate; $CaCO_3$	= 6450 mg/kg (Rat)		
Zinc oxide; ZnO	> 5000 mg/kg (Rat)		
Copper (I) oxide; Cu_2O	= 470 mg/kg (Rat)	> 2000 mg/kg (Rat)	= 2.92 mg/L (Rat) 4 h = 3.69 mg/L (Rat) 4 h

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 Should not be released into the environment

Unknown Aquatic Toxicity 0% 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; NH_4NO_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_2O	0.055 - 0.076: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.021 - 0.037: 96 h Pseudokirchneriella subcapitata mg/L EC50 65: 96 h Desmodesmus subspicatus mg/L EC50	-	-	0.51: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Bioaccumulation: Does not bioaccumulate.

Chemical Name	LOGPOW
Ammonium nitrate; NH_4NO_3	-3.1
Urea	-1.59

12.4. Mobility in soil No data available.

12.5. 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.

Contaminated Packaging: Do not reuse container.

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

Section 14: TRANSPORT INFORMATION

IMO / IMDG

14.1
UN-No: Not regulated

14.2
Proper shipping name: Not regulated

14.3
Hazard Class: Not regulated

14.4
Packing group: Not regulated

14.5
Marine Pollutant: Not regulated

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

14.4
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

14.4
Packing group: Not regulated

14.5
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	Belgium - Major Accidents - Qualifying Quantities for Accident Prevention
Ammonium nitrate; NH_4NO_3 6484-52-2 (25 - 40%)	2500 tonne (technical grade; (a) this applies 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)	350 tonne

Denmark

Danish Sikkerhedsgruppe — No data available

France

ICPE — Classified installation: article 1331 (Type III)

Germany

LGK (Germany) — Exempt
Water Endangering Class (WGK): — 1 (Everris classification)
Gefahrstoffverordnung (Germany) TRGS 511 — C III

Component	German WGK Section
Ammonium nitrate; NH_4NO_3 6484-52-2 (25 - 40%)	class 1
Urea 57-13-6 (25 - 40%)	class 1
Sulphur; S 7704-34-9 (1 - 5%)	class 1
Diiron trioxide; Fe_2O_3 1345-25-1 (1 - 5%)	NWG
Magnesium oxide; MgO 1309-48-4 (1 - 5%)	class 1
Calcium sulphate dihydrate; $CaSO_4+2H_2O$ 10101-41-4 (0.1 - 1%)	class 1
Manganese sulphate; $MnSO_4+1H_2O$ 7785-87-7 (0.1 - 1%)	class 2 class 1
Calcium carbonate; $CaCO_3$ 471-34-1 (0.1 - 1%)	NWG
Manganese oxide; MnO 1344-43-0 (0.1 - 1%)	class 3
Zinc sulphate mono hydrate; $ZnSO_4+1H_2O$ 7446-19-7 (0.1 - 1%)	class 3
Zinc oxide; ZnO 1314-13-2 (0.1 - 1%)	class 2
Copper (I) oxide; Cu_2O 1317-39-1 (< 0.1%)	class 3

Component	EU - Explosives Precursors Marketing and Use (98/2013) - Substances Subject to Suspicious Transactions Reporting	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Ammonium nitrate; NH_4NO_3 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 XVII	Substance subject to authorization per REACH Annex XIV
Ammonium nitrate; NH_4NO_3	Use restricted. See item 58.	

Chemical Name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Ammonium nitrate; NH_4NO_3	350	2500

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
- 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).

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

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