

Safety Data Sheet

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Version: 7.01

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

1.1. Product identifier Product Name: Product Code Synonyms:

Osmocote Exact Standard High K 5-6M; 11-11-18+TE 88270225EA Osmocote Exact Standard High K 11-4.8-14.9+TE

1.2. Relevant identified uses of the substance or mixture and uses advised againstRecommended Use:Fertilizer. Restricted to professional users.Uses Advised Against:Consumer use.

1.3. Details of the supplier of the safety data sheet
 Manufacturer
 Everris International BV
 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

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 Ammonium Nitrate; NH4NO3, Potassium sulphate; K2SO4

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

Ingredients	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	25 - 40%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
Potassium sulphate; K2SO4	231-915-5	7778-80-5	10 - 25%	Eye Dam. 1 (H318)	01-2119489441-34
Calcium sulphate dihydrate; CaSO4+2H2O	231-900-3	10101-41-4	0.1 - 1%	Not classified	01-2119444918-26
Iron sulphate; FeSO4+1H2O	231-753-5	7720-78-7	0.1 - 1%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119513203-57
Iron EDTA; Fe-EDTA	239-802-2	15708-41-5	0.1 - 1%	Not classified	01-2119496228-27
Copper sulphate anh; CuSO4	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
Wax	No EC nr.	112945-52-5	0.1 - 1%	Not classified	01-2119488076-30
Manganese sulphate; MnSO4+1H2O	232-08-99	7785-87-7	0.1 - 1%	STOT RE 2 (H373) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	01-2119456624-35
Urea	200-315-5	57-13-6	0.1 - 1%	Not classified	01-2119463277-33
Sodium borate; Na ₂ B ₄ O ₇	215-540-4	1330-43-4	< 0.1%	Eye Irrit. 2 (H319) Repr. 1B (H360FD)	01-2119490790-32
Calcium fluoride; CaF2	232-188-7	7789-75-5	< 0.1%	Not classified	Exempt
Zinc sulphate mono hydrate; ZnSO4+1H2O	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
Sodium molybdate; Na2MoO4+2H2O	231-551-7	7631-95-0	< 0.1%	Not classified	01-2119489495-21
Magnesium oxide; MgO	215-171-9	1309-48-4	< 0.1%	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:	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.		
Skin Contact:	If a person feels unwell or symptoms of skin irritation appear, consult a physician. Rinse with plenty of water.		
Eye Contact:	Rinse eyes with water as a precaution. If eye irritation persists, consult a specialist.		
Ingestion:	If conscious, drink plenty of water. Do NOT induce vomiting. Rinse mouth. Consult a physician if necessary.		
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:

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

Coordinate fire extinguishing measures to fire in surrounding area.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions:Avoid dust formation. Sweep-up to prevent slipping hazard.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.

6.4. Reference to other sections

§ 8, 12, 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

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:

LGK (Germany) Packaging Materials:

7.3. Specific end use(s)

Specific use(s)

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 bags should be closed well. Keep at temperatures between 0 °C and 40 °C. Exempt

Bags or Bulk.

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 ₂ SO ₄	
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m³ TWA
Latvia - Occupational Exposure Limits - TWAs	10 mg/m³ TWA
Calcium sulphate dihydrate; CaSO4+2H2O	
German mak	TWA: 1.5 mg/m ³
	TWA: 4 mg/m ³
Portugal	TWA: 10 mg/m ³
Spain OEL - Time Weighted Average (TWA):	TWA: 10 mg/m ³
Switzerland	TWA: 3 mg/m ³
Iron sulphate; FeSO4+1H2O	
Belgium - 8 Hr TWA	1 mg/m ³
Denmark	TWA: 1 mg/m ³
Finland	TWA: 1 mg/m ³
Ireland	TWA: 1 mg/m ³
	STEL: 2 mg/m ³
Netherlands - OEL - MACs:	1 mg/m ³
Norway	TWA: 1 mg/m ³ STEL: 3 mg/m ³
Portugal	TWA: 1 mg/m ³
Spain OEL - Time Weighted Average (TWA):	TWA: Ling/m ²
Switzerland	TWA: Ling/m ²
UK oes/mel:	TWA: Ling/m ²
Iron EDTA; Fe-EDTA	
Denmark	TWA: 1 mg/m ³
Finland	TWA: 1 mg/m ³
Portugal	TWA: 1 mg/m ³
Spain OEL - Time Weighted Average (TWA):	TWA: 1 mg/m ³
Switzerland	TWA: 1 mg/m ³
Copper sulphate anh; CuSO4	i www.i mg/m
Austria	STEL 4 mg/m ³
	STEL 0.4 mg/m ³
	TWA: 1 mg/m ³
	TWA: 0.1 mg/m ³
Australia TWA	N.A.
Finland	TWA: 1 mg/m ³
German mak	TWA: 0.1 mg/m ³
	Ceiling / Peak: 0.2 mg/m ³
Netherlands - OEL - MACs:	0.1 mg/kg TWA
Poland	TWA: 0.2 mg/m ³

Russia TWA	0.5 mg/m³ TWA Cu		
Switzerland	STEL: 0.2 mg/m ³		
	TWA: 0.1 mg/m ³		
Wax			
Austria	TWA: 4 mg/m ³		
Manganese sulphate; MnSO4+1H2O			
Austria	STEL 2 mg/m ³		
	TWA: 0.5 mg/m ³		
Australia TWA	0.2 mg/m ³		
Belgium - 8 Hr TWA	0.2 mg/m ³		
Denmark	TWA: 0.2 mg/m ³		
Finland	TWA: 0.2 mg/m ³ TWA: 0.1 mg/m ³		
German mak	TWA: 0.2 mg/m ³		
	TWA: 0.02 mg/m ³		
	Ceiling / Peak: 1.6 mg/m ³		
	Ceiling / Peak: 0.16 mg/m³ TWA: 0.5 mg/m³		
Ireland	TWA: 0.3 mg/m ²		
Netherlands - OEL - MACs:	1 mg/m ³		
Norway	TWA: 1 mg/m ³		
	TWA: 0.1 mg/m ³		
	STEL: 3 ppm		
	STEL: 0.3 mg/m ³		
Poland	TWA: 0.3 mg/m ³		
Portugal	TWA: 0.2 mg/m ³		
Spain OEL - Time Weighted Average (TWA):	TWA: 0.2 mg/m ³		
Sweden - OEL - 8 Hour	0.2 mg/m ³ LLV (totalt)		
Switzerland	TWA: 0.5 mg/m ³		
UK oes/mel:	TWA: 0.5 mg/m ³		
Urea			
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m ³ TWA		
Latvia - Occupational Exposure Limits - TWAs	10 mg/m ³ TWA		
Norway	TWA: 30 μg Hg/g Creatinine STEL: 45 μg Hg/g Creatinine		
Sodium borate; Na2B4O7			
Australia TWA	1 mg/m³ TWA		
Belgium - 8 Hr TWA	2 mg/m ³ TWA borate		
Denmark	TWA: 1 mg/m ³		
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 ³		
Ireland	TWA: 1 mg/m ³		
Norway	TWA: 1 mg/m ³		
	STEL: 3 mg/m ³		
Portugal	STEL: 6 mg/m ³		
	TWA: 2 mg/m ³ STEL: 6 mg/m ³		
Spain OEL - Time Weighted Average (TWA):	TWA: 2 mg/m ³		
Switzerland	TWA: 1 mg/m ³		
UK oes/mel:	STEL: 3 mg/m ³		
	TWA: 1 mg/m ³		
Calcium fluoride; CaF2			
Denmark	TWA: 2.5 mg/m ³		
German mak	TWA: 1 mg/m ³		
Ireland	Skin		
Ireland	TWA: 2.5 mg/m ³		
Latvia - Occupational Exposure Limits - TWAs	0.5 mg/m ³ TWA (as F, listed under Hydrofluoric acid salts)		
Poland	STEL: 2 mg/m ³ TWA: 2 mg/m ³		
Portugal	TWA: 2.109/10° TWA: 2.5 mg/m ³		
Romania - Occupational Exposure Limits - TWAs	1 mg/m³ TWA		
Russia TWA	0.5 mg/m ³ TWA		
Zinc sulphate mono hydrate; ZnSO4+1H2O			

German mak	TWA: 0.1 mg/m ³
	TWA: 2 mg/m ³ Ceiling / Peak: 0.4 mg/m ³
	Ceiling / Peak: 4 mg/m ³
Sodium molybdate; Na2MoO4+2H2O	
Austria	STEL 10 mg/m ³
	TWA: 5 mg/m ³
Czech Republic OEL	5 mg/m ³ TWA
Denmark	TWA: 5 mg/m ³
Finland	TWA: 0.5 mg/m ³
France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 5 mg/m ³
······	STEL: 10 mg/m ³
Ireland	TWA: 10 mg/m ³ TWA: 0.5 mg/m ³
Norway	TWA: 5 mg/m ³
	STEL: 10 mg/m ³
Poland	STEL: 10 mg/m ³
	TWA: 4 mg/m ³
Portugal	TWA: 0.5 mg/m ³
Spain OEL - Time Weighted Average (TWA):	TWA: 0.5 mg/m ³
Sweden - OEL - 8 Hour	5 mg/m³ LLV
Switzerland	TWA: 5 mg/m ³
UK oes/mel:	TWA: 5 mg/m ³
Magnesium oxide; MgO	
Austria	STEL 20 mg/m ³
	STEL 10 mg/m ³
	TWA: 5 mg/m ³
	TWA: 10 mg/m ³
Australia TWA	10 mg/m ³ TWA fume
Belgium - 8 Hr TWA	10 mg/m ³
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m³ TWA
Czech Republic OEL	5 mg/m³ TWA
Denmark	TWA: 6 mg/m ³
Greece - OEL	10 mg/m ³ TWA (inhalable fraction); 5 mg/m ³ TWA (respirable fraction)
Iceland - OEL - 8 Hour	6 mg/m³ TWA Mg
France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 10 mg/m ³
German mak	TWA: 1.5 mg/m ³
	TWA: 4 mg/m ³
Hungary - Occupational Exposure Limits - TWAs	6 mg/m³ TWA
Ireland	
	TWA: 5 mg/m ³ TWA: 10 mg/m ³
	STEL: 10 mg/m ³
Netherlands - OEL - MACs:	10 mg/m ³
Norway	TWA: 10 mg/m ³
,	STEL: 20 mg/m ³
Poland	TWA: 5 mg/m ³
	TWA: 10 mg/m ³
Portugal	TWA: 10 mg/m ³
Romania - Occupational Exposure Limits - TWAs	5 mg/m ³ TWA (fume)
Spain OEL - Time Weighted Average (TWA):	TWA: 10 mg/m ³
Switzerland	TWA: 3 mg/m ³
UK oes/mel:	STEL: 30 mg/m ³
	STEL: 12 mg/m ³
	TWA: 10 mg/m ³
	TWA: 4 mg/m ³

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
Hand protection:	Nitrile rubber (0.26 mm). Break through time. > 8 h.
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, green.
Odor:	Not significant
pH:	no data available
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):	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
Partition Coefficient:	Solid, Not Applicable
Autoignition Temperature:	Not Applicable
Decomposition Temperature:	no data available
Explosive Properties:	Doesn't present explosion hazard. Based on data of ingredients.

9.2. Other information Bulk density:

1017 - 1167 kg/m³

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

Acids and bases. Flammable materials. Strong oxidizing agents. Strong reducing agents. 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.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicologic Acute Toxicity	al effects
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:	0% of the mixture consists of ingredient(s) of unknown toxicity.
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The following values are calculated based on chapter 3.1 of the GHS document: ATEmix (oral): 34,393.00 mg/kg

Component Information:

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Nitrate; NH4NO3	= 2217 mg/kg (Rat)		> 88.8 mg/L (Rat)4 h
Potassium sulphate; K ₂ SO ₄	= 6600 mg/kg (Rat)		
Iron sulphate; FeSO4+1H2O	= 500 mg/kg (Rat)		
Copper sulphate anh; CuSO4	= 300 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	
Manganese sulphate; MnSO4+1H2O	= 782 mg/kg (Rat)		
Sodium borate; Na ₂ B ₄ O ₇	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	
Calcium fluoride; CaF2	= 4250 mg/kg (Rat)		
Sodium molybdate; Na2MoO4+2H2O	= 4233 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 2080 mg/m ³ (Rat) 4 h

Skin Corrosion or Irritation Serious Eye Damage or Eye Irritation Sensitization Mutagenic effects Carcinogenicity See also section 3. See also section 3. See also section 3. See also section 3. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Reproductive Toxicity

Ingredients	EU - GHS - SV - CLP (1272/2008) - Reproductive Toxicity	
Sodium borate; Na₂B₄O7	Reproductive Toxicity - Repr. 1B: H360FD May damage fertility. May damage the unborn child. (C >= 4.5 %)	
Teratogenicity STOT - Single Exposure STOT - Repeated Exposure Aspiration Hazard	No known effects under normal use conditions. No known effects under normal use conditions. None under normal use conditions. 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.

Ingredients	Algae/aquatic plants	Fish	Crustacea
Potassium sulphate; K ₂ SO ₄	2900: 72 h Desmodesmus subspicatus mg/L EC50	3550: 96 h Lepomis macrochirus mg/L LC50 static 510 - 880: 96 h	EC50
		Pimephales promelas mg/L LC50 static 653: 96 h Lepomis macrochirus mg/L LC50	
Copper sulphate anh; CuSO₄		0.1: 96 h Oncorhynchus mykiss mg/L LC50	0.024: 48 h Daphnia magna mg/L EC50
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

Sodium borate; Na ₂ B ₄ O ₇	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

Ingredients	LOGPOW
Ammonium Nitrate; NH4NO3	-3.1
Urea	-1.59

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:

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

Section 14: TRANSPORT INFORMATION

IMO / IMDG	
<u>14.1</u>	
UN-No:	Not regulated
<u>14.2</u>	
Proper shipping name:	Not regulated
14.3	
Hazard Class:	Not regulated
14.4	
Packing group:	Not regulated
14.5	
Component	IMDG - Marine Pollutants
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)
Marine Pollutant:	No information available
14.6	
Special Provisions	None
14.7	
Transport in bulk according to Annex II of MARPOL 73/78	Not regulated
and the IBC Code	5
ADR/RID	
14.1	
UN-No:	Not regulated
14.2	č
Proper shipping name:	Not regulated
14.3	U
Hazard Class:	Not regulated

14.4 Packing group: <u>14.5</u> Environmental Hazard <u>14.6</u> Special Provisions	Not regulated Not regulated None
ΙΑΤΑ	
<u>14.1</u> UN-No:	Not regulated
14.2	Not regulated
Proper shipping name: 14.3	Not regulated
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

Component	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Ammonium Nitrate; NH₄NO₃ 6484-52-2 (25 - 40%)	Use restricted. See item 58. (Conditions of restrictions 27 June 2010)

National regulations

Belgium		
Component	Belgium - Major Accidents - Qualifying Quantities for Safety Reporting	Belgium - Major Accidents - Qualifying Quantities for Accident Prevention
Ammonium Nitrate; NH4NO3	2500 tonne (Note 3, applies to Ammonium	350 tonne (Note 3, applies to Ammonium
6484-52-2 (25 - 40%)	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 Ammonium nitrate solutions in	aqueous Ammonium nitrate solutions in
	which the concentration of Ammonium nitrat	e which the concentration of Ammonium nitrate
	is >80% by weight)	is >80% by weight)

Denmark Danish Sikkerhedsgruppe

Not regulated France ICPE Classified installation: article 1331 (Type III) Germany Gefahrstoffverordnung (Germany) TRGS 511 C III LGK (Germany) Exempt Water Endangering Class (WGK): 1 (Everris classification)

Component	German WGK Section
	class 1
6484-52-2(25 - 40%)	

Potassium sulphate; K ₂ SO ₄ class 1 7778-80-5 (10 - 25%) class 1 Iron sulphate; FeSO ₄ +1H ₂ O class 1 7720-78-7 (0.1 - 1%) class 2 Iron EDTA; Fe-EDTA class 2 15708-41-5 (0.1 - 1%) class 2 Copper sulphate anh; CuSO ₄ class 2 7758-98-7 (0.1 - 1%) class 1 Manganese sulphate; MnSO ₄ +1H ₂ O class 1 7785-87-7 (0.1 - 1%) class 1 Urea class 1 57-13-6 (0.1 - 1%) class 1
Iron sulphate; FeSO4+1H2O class 1 7720-78-7 (0.1 - 1%) class 2 Iron EDTA; Fe-EDTA class 2 15708-41-5 (0.1 - 1%) class 2 Copper sulphate anh; CuSO4 class 2 7758-98-7 (0.1 - 1%) class 1 Manganese sulphate; MnSO4+1H2O class 1 7785-87-7 (0.1 - 1%) class 1 Urea class 1
7720-78-7 (0.1 - 1%) class 2 Iron EDTA; Fe-EDTA class 2 15708-41-5 (0.1 - 1%) class 2 Copper sulphate anh; CuSO4 class 2 7758-98-7 (0.1 - 1%) class 1 Manganese sulphate; MnSO4+1H2O class 1 7785-87-7 (0.1 - 1%) class 1
7720-78-7 (0.1 - 1%) class 2 Iron EDTA; Fe-EDTA class 2 15708-41-5 (0.1 - 1%) class 2 Copper sulphate anh; CuSO4 class 2 7758-98-7 (0.1 - 1%) class 1 Manganese sulphate; MnSO4+1H2O class 1 7785-87-7 (0.1 - 1%) class 1
Iron EDTA; Fe-EDTA class 2 15708-41-5 (0.1 - 1%) class 2 Copper sulphate anh; CuSO4 class 2 7758-98-7 (0.1 - 1%) class 1 Manganese sulphate; MnSO4+1H2O class 1 7785-87-7 (0.1 - 1%) class 1
15708-41-5 (0.1 - 1%) Copper sulphate anh; CuSO4 7758-98-7 (0.1 - 1%) class 2 Manganese sulphate; MnSO4+1H2O class 1 7785-87-7 (0.1 - 1%) class 1 Urea class 1
Copper sulphate anh; CuSO4 class 2 7758-98-7 (0.1 - 1%) class 1 Manganese sulphate; MnSO4+1H2O class 1 7785-87-7 (0.1 - 1%) class 1
7758-98-7 (0.1 - 1%) Manganese sulphate; MnSO4+1H2O 7785-87-7 (0.1 - 1%) class 1 Urea class 1
Manganese sulphate; MnSO4+1H2O class 1 7785-87-7 (0.1 - 1%) class 1 Urea class 1
7785-87-7 (0.1 - 1%) Urea class 1
7785-87-7 (0.1 - 1%) Urea class 1
Urea class 1
Sodium borate; Na ₂ B ₄ O ₇ class 1
1330-43-4 (< 0.1%)
Calcium fluoride; CaF ₂ class 1
7789-75-5 (< 0.1%)
Zinc sulphate mono hydrate; ZnSO4+1H2O class 3
7446-19-7 (< 0.1%)
Sodium molybdate; Na ₂ MoO ₄ +2H ₂ O class 1
7631-95-0 (< 0.1%)
Magnesium oxide; MgO class 1
1309-48-4 (< 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

H360FD - May damage fertility. May damage the unborn child

H319 - Causes serious eye irritation

H272 - May intensify fire; oxidizer

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H315 - Causes skin irritation

H373 - May cause damage to the kidneys/ liver/ eyes/ brain/ digestive system/ central nervous system through prolonged or repeated exposure if swallowed

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
Key literature references and sources for data	According to EC Regulation 1907/2006 (Reach), Regulation EU No. 453/2010. Regulation (EC) No 1272/2008.
Prepared by:	Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)
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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