

# Safety Data Sheet

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Version: 7.02

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

### 1.1. Product identifier

Product Name

Sierrablen Plus 18-5-18+2MgO

Product Code:

41970125DB

Synonyms:

Sierrablen Plus 18-2.2-14.9+1.2Mg

Pure substance/mixture

Mixture.

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

Recommended Use

Fertilizer (PC12).

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)

Eye Irritation

Category 1 - (H318)

### 2.2. Label elements



Signal Word: Danger

### Hazard Statements:

H318 - Causes serious eye damage

Contains Ammonium nitrate;  $\text{NH}_4\text{NO}_3$ , Potassium sulphate;  $\text{K}_2\text{SO}_4$

### Precautionary Statements:

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 (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
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	231-915-5	7778-80-5	25 - 40%	Eye Dam. 1 (H318)	01-2119489441-34
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	229-347-8	6484-52-2	10 - 25%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
Urea	200-315-5	57-13-6	10 - 25%	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
Calcium sulphate dihydrate; CaSO <sub>4</sub> +2H <sub>2</sub> O	231-900-3	10101-41-4	0.1 - 1%	Not classified	01-2119444918-26
Calcium carbonate; CaCO <sub>3</sub>	207-439-9	471-34-1	0.1 - 1%	Not classified	Exempt
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
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
Manganese sulphate; MnSO <sub>4</sub> +1H <sub>2</sub> O	232-08-99	7785-87-7	< 0.1%	STOT RE 2 (H373) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	01-2119456624-35

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.

### 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.

Packaging Materials:

LGK (Germany)

Store in original container. Store in a closed container.

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### 7.3. Specific end use(s)

Specific use(s)

Exposure scenario

Fertilizer; [www.everris.com](http://www.everris.com); Read and follow label instructions  
Mixture. Not required.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

<i>Potassium sulphate; K<sub>2</sub>SO<sub>4</sub></i>	
Bulgaria - OEL- TWAs	10.0 mg/m <sup>3</sup> TWA
Latvia - OEL - TWAs	10 mg/m <sup>3</sup> TWA
<i>Ammonium nitrate; NH<sub>4</sub>NO<sub>3</sub></i>	
Australia	N.A.
Czech Republic OEL	10.0 mg/m <sup>3</sup> TWA
<i>Urea</i>	
Bulgaria - OEL- TWAs	10.0 mg/m <sup>3</sup> TWA
Latvia - OEL - TWAs	10 mg/m <sup>3</sup> TWA
<i>Sulphur; S</i>	
Latvia - OEL - TWAs	6 mg/m <sup>3</sup> TWA
Russia TWA	6 mg/m <sup>3</sup> TWA 1863
<i>Magnesium oxide; MgO</i>	
Austria	STEL 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>
Australia	10 mg/m <sup>3</sup> TWA fume
Belgium - 8 Hr TWA	10 mg/m <sup>3</sup>

Bulgaria - OEL- TWAs	10.0 mg/m <sup>3</sup> TWA
Czech Republic OEL	5 mg/m <sup>3</sup> 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/m <sup>3</sup> TWA
Iceland - OEL - 8 Hour	6 mg/m <sup>3</sup> TWA Mg
Ireland	TWA: 4 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Korea - ISHA - OEL - TWAs	10 mg/m <sup>3</sup> TWA (Serial No. 277)
Malaysia	10 mg/m <sup>3</sup> 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/m <sup>3</sup> TWA (fume)
Spain - Valores Limite Ambientales - VLE	TWA: 10 mg/m <sup>3</sup>
Singapore - OEL:PELs	10 mg/m <sup>3</sup> PEL
Switzerland	TWA: 3 mg/m <sup>3</sup>
UK EH40 WEL (8h)	10 mg/m <sup>3</sup>
<i>Calcium sulphate dihydrate; CaSO<sub>4</sub>+2H<sub>2</sub>O</i>	
Belgium - 8 Hr TWA	10 mg/m <sup>3</sup> TWA
Portugal	TWA: 10 mg/m <sup>3</sup>
Spain - Valores Limite Ambientales - VLE	TWA: 10 mg/m <sup>3</sup>
Switzerland	TWA: 3 mg/m <sup>3</sup>
UK EH40 WEL (8h)	10 mg/m <sup>3</sup> TWA (Inhalable) 4 mg/m <sup>3</sup> TWA (Respirable)
<i>Calcium carbonate; CaCO<sub>3</sub></i>	
Australia	10 mg/m <sup>3</sup> TWA inhalable dust
Czech Republic OEL	10.0 mg/m <sup>3</sup> TWA
FR - OEL - 8h VMEs	TWA: 10 mg/m <sup>3</sup>
Korea - ISHA - OEL - TWAs	10 mg/m <sup>3</sup> TWA (Serial No. 572)
Latvia - OEL - TWAs	6 mg/m <sup>3</sup> TWA
Poland	TWA: 10 mg/m <sup>3</sup>
Portugal	TWA: 10 mg/m <sup>3</sup>
Switzerland	TWA: 3 mg/m <sup>3</sup>
UK EH40 WEL (8h)	10 mg/m <sup>3</sup> TWA (inhalable) 4 mg/m <sup>3</sup> TWA (respirable)
<i>Iron sulphate; FeSO<sub>4</sub>+1H<sub>2</sub>O</i>	
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>
Norway	TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>
Portugal	TWA: 1 mg/m <sup>3</sup>
Spain - Valores Limite Ambientales - VLE	TWA: 1 mg/m <sup>3</sup>
Switzerland	TWA: 1 mg/m <sup>3</sup>
UK EH40 WEL (8h)	LTEL (8 hr TWA) 1 mg/m <sup>3</sup> STEL (15 min) 2mg/m <sup>3</sup>
<i>Manganese sulphate; MnSO<sub>4</sub>+1H<sub>2</sub>O</i>	
Austria	STEL 2 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>
Australia	0.2 mg/m <sup>3</sup>
Belgium - 8 Hr TWA	0.2 mg/m <sup>3</sup>
Denmark	TWA: 0.2 mg/m <sup>3</sup>
Finland	TWA: 0.02 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>
Ireland	TWA: 0.2 mg/m <sup>3</sup> STEL: 0.6 mg/m <sup>3</sup>
Japan	0.2 mg/m <sup>3</sup> OEL Mn
NL MAC - TWA:	STEL: 0.05 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>
Norway	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.1 ppm
Poland	TWA: 0.05 mg/m <sup>3</sup>
Portugal	TWA: 0.2 mg/m <sup>3</sup>
Spain - Valores Limite Ambientales - VLE	TWA: 0.2 mg/m <sup>3</sup>

	TWA: 0.05 mg/m <sup>3</sup>
Switzerland	TWA: 0.5 mg/m <sup>3</sup>
UK EH40 WEL (8h)	5 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)**

Component	Oral	Dermal	Inhalation
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> 7778-80-5 ( 25 - 40% )		21.3 mg/kg bw/day	37.6 mg/m <sup>3</sup>
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2 ( 10 - 25% )	36 mg/m <sup>3</sup>	5.12 mg/kg bw/day	8.9 mg/m <sup>3</sup>
Urea 57-13-6 ( 10 - 25% )		580 mg/kg bw/day	292 mg/m <sup>3</sup>
Zinc sulphate mono hydrate; ZnSO <sub>4</sub> +1H <sub>2</sub> O 7446-19-7 ( < 0.1% )		8.3 mg/kg bw/day	1 mg/m <sup>3</sup>
Manganese sulphate; MnSO <sub>4</sub> +1H <sub>2</sub> O 7785-87-7 ( < 0.1% )	37.6 mg/m <sup>3</sup>	0.004 mg/kg bw/day	0.2 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)**

No data available

Component	Fresh Water	Freshwater sediment	Sea Water	Sea sediment	Soil	Impact on Sewage Treatment
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> 7778-80-5 ( 25 - 40% )	0.68 mg/l		0.068 mg/l			10 mg/l
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub> 6484-52-2 ( 10 - 25% )						18 mg/l
Urea 57-13-6 ( 10 - 25% )	0.47 mg/l		0.047 mg/l			
Zinc sulphate mono hydrate; ZnSO <sub>4</sub> +1H <sub>2</sub> O 7446-19-7 ( < 0.1% )	20.6 µg/l		6.1 µg/l	56.5 mg/kg	35.6 mg/kg	100 µg/l
Manganese sulphate; MnSO <sub>4</sub> +1H <sub>2</sub> O 7785-87-7 ( < 0.1% )	0.013 mg/l	0.011 mg/kg	0 mg/l	0.001 mg/kg	25.1 mg/kg	25.1 mg/kg

**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. &gt; 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:**

Solid

**Appearance:**

Granules

**Odor:**

None

**Bulk density:**931 - 1081 kg/m<sup>3</sup>**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.
<b>9.2. Other information</b>	
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

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 derivatives 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

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

ATEmix (oral): 25,984.00 mg/kg

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

Potassium sulphate; K<sub>2</sub>SO<sub>4</sub> (7778-80-5)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	= 6600 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	N.E.
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	= 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 )		
Calcium carbonate; CaCO <sub>3</sub>	= 6450 mg/kg ( Rat )		
Iron sulphate; FeSO <sub>4</sub> +1H <sub>2</sub> O	= 500 mg/kg ( Rat )	= 155 mg/kg ( Rat )	
Manganese sulphate; MnSO <sub>4</sub> +1H <sub>2</sub> O	= 2125 mg/kg ( Rat )		> 4.98 mg/L (Rat) 4h

**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**

7% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
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
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	-	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		
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 carpio mg/L LC50 semi-static	-	152: 48 h Daphnia magna mg/L EC50 6.15 - 9.26: 48 h Daphnia magna mg/L EC50 Static

**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 <sub>4</sub> NO <sub>3</sub>	-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 14.6	Not regulated
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; $\text{NH}_4\text{NO}_3$ 6484-52-2 ( 10 - 25% )	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 $\leq 0.4\%$ total combustible or (ii) $>28\%$ by weight and which contain $\leq 0.2\%$ combustible substances (b) aqueous Ammonium nitrate solutions in which the concentration of Ammonium nitrate is $>80\%$ by weight)	350 tonne

**Denmark**

Denmark	No data available
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**France**

ICPE	Not regulated
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**Germany**

LGK (Germany)	13
Water Endangering Class (WGK):	1 (Everris classification)
Gefahrstoffverordnung (Germany) TRGS 511	C III

Component	German WGK Section
Potassium sulphate; $\text{K}_2\text{SO}_4$ 7778-80-5 ( 25 - 40% )	1
Ammonium nitrate; $\text{NH}_4\text{NO}_3$ 6484-52-2 ( 10 - 25% )	1
Urea 57-13-6 ( 10 - 25% )	1
Sulphur; S 7704-34-9 ( 1 - 5% )	class 1
Magnesium oxide; $\text{MgO}$ 1309-48-4 ( 1 - 5% )	1
Calcium sulphate dihydrate; $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ 10101-41-4 ( 0.1 - 1% )	1
Calcium carbonate; $\text{CaCO}_3$ 471-34-1 ( 0.1 - 1% )	NWG
Iron sulphate; $\text{FeSO}_4 \cdot \text{H}_2\text{O}$ 7720-78-7 ( 0.1 - 1% )	1

Zinc sulphate mono hydrate; ZnSO <sub>4</sub> +1H <sub>2</sub> O 7446-19-7 ( < 0.1% )	3
Manganese sulphate; MnSO <sub>4</sub> +1H <sub>2</sub> O 7785-87-7 ( < 0.1% )	2

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 <sub>4</sub> NO <sub>3</sub> 6484-52-2 ( 10 - 25% )	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 <sub>4</sub> NO <sub>3</sub>	Use restricted. See item 58.	

Chemical Name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Ammonium nitrate; NH <sub>4</sub> NO <sub>3</sub>	350	2500

## 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
- 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
- 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

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<b>Key literature references and sources for data</b>	According to EC Regulation 1907/2006 (Reach), Regulation EU No. 2015/830. Regulation (EC) No 1272/2008 (CLP).
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