

# Safety Data Sheet

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Version: 4.01

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

### 1.1. Product identifier

**Product Name** Agrolution Special 125 7-14-35+3.5MgO+TE  
**Product Code:** 21600325GB  
**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)

<b>Skin Corrosion or Irritation</b>	Category 1 Sub-category B - (H314)
<b>Eye Irritation</b>	Category 1 - (H318)
<b>Oxidizing solids</b>	Category 3 - (H272)

### 2.2. Label elements



**Signal Word:** Danger

#### Hazard Statements:

H314 - Causes severe skin burns and eye damage

H272 - May intensify fire; oxidizer

Contains Urea phosphate, Potassium sulphate;  $K_2SO_4$

#### Precautionary Statements:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P221 - Take any precaution to avoid mixing with combustibles

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P310 - Immediately call a POISON CENTER or doctor/physician

### 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	10 - 25%	Eye Dam. 1 (H318)	01-2119489441-34
Urea phosphate	225-464-3	4861-19-2	5 - 10%	Skin Corr. 1B (H314)	01-2119489460-34
Iron-EDTA-13; Fe-EDTA	239-802-2	15708-41-5	1 - 5%	Not classified	01-2119496228-27
Manganese-EDTA, Mn-EDTA	239-407-5	15375-84-5	0.1 - 1%	Not classified	01-2119493600-40
Copper-EDTA; Cu-EDTA	237-864-5	14025-15-1	< 0.1%	Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119963944-23
Boric acid; H <sub>3</sub> BO <sub>3</sub>	233-139-2	10043-35-3	< 0.1%	Repr. 1B (H360FD)	01-2119486683-25
Sodium molybdate; Na <sub>2</sub> MoO <sub>4</sub>	231-551-7	7631-95-0	< 0.1%	Not classified	01-2119489495-21

Component	SVHC candidates
Boric acid; H <sub>3</sub> BO <sub>3</sub> 10043-35-3 (< 0.1%)	Present

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

### Section 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

<b>General Advice:</b>	First aid measures should be executed by trained personnel only.
<b>Inhalation</b>	If not breathing, give artificial respiration. If symptoms persist, call a physician. If fumes from reactions are inhaled, move to fresh air immediately.
<b>Skin Contact:</b>	If skin irritation persists, call a physician.
<b>Eye Contact:</b>	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
<b>Ingestion:</b>	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: Flooding quantities of water.

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. The product itself does not burn. May intensify fire; oxidizer.

#### 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: Store in original container. Store in a closed container. 5.1B

LGK (Germany)

### 7.3. Specific end use(s)

Specific use(s): Fertilizer; [www.everris.com](http://www.everris.com); Read and follow label instructions

Exposure scenario: 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>Iron-EDTA-13; Fe-EDTA</i>	
Denmark	TWA: 1 mg/m <sup>3</sup>
Finland	TWA: 1 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)	1 mg/m <sup>3</sup> TWA
<i>Manganese-EDTA, Mn-EDTA</i>	
Czech Republic OEL	1 mg/m <sup>3</sup> TWA
Ireland	TWA: 0.2 mg/m <sup>3</sup> STEL: 0.6 mg/m <sup>3</sup>
<i>Copper-EDTA; Cu-EDTA</i>	
Austria	STEL 0.4 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>
Australia	N.A.
Finland	TWA: 0.02 mg/m <sup>3</sup>
<i>Boric acid; H<sub>3</sub>BO<sub>3</sub></i>	
Australia	12 mg/m <sup>3</sup>
Belgium - 8 Hr TWA	2 mg/m <sup>3</sup> TWA borate
Bulgaria - OEL- TWAs	5.0 mg/m <sup>3</sup> TWA (as B, listed under Boron and its inorganic compounds)
Ireland	TWA: 2 mg/m <sup>3</sup>

	STEL: 6 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> TWA
Latvia - OEL - TWAs	
Portugal	STEL: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
Spain - Valores Limite Ambientales - VLE	STEL: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
Switzerland	STEL: 1.8 mg/m <sup>3</sup> TWA: 1.8 mg/m <sup>3</sup>
<i>Sodium molybdate; Na<sub>2</sub>MoO<sub>4</sub></i>	
Austria	STEL 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>
Czech Republic OEL	5 mg/m <sup>3</sup> TWA
Denmark	TWA: 5 mg/m <sup>3</sup>
Finland	TWA: 0.5 mg/m <sup>3</sup>
FR - OEL - 8h VMEs	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Ireland	TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>
Norway	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Poland	STEL: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
Portugal	TWA: 0.5 mg/m <sup>3</sup>
Spain - Valores Limite Ambientales - VLE	TWA: 0.5 mg/m <sup>3</sup>
Switzerland	TWA: 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 ( 10 - 25% )		21.3 mg/kg bw/day	37.6 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 ( 10 - 25% )	0.68 mg/l		0.068 mg/l			10 mg/l

**8.2. Exposure controls****Personal protective equipment****Eye/Face Protection****Hand protection****Respiratory Protection****Skin and body protection:****Hygiene Measures:**

Wear face-shield and protective suit for abnormal processing problems.

Gloves. Nitrile rubber (0.26 mm). Break through time. &gt; 8 h.

Not required; except in case of aerosol formation. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit

Lightweight protective clothing

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:**

Crystals, Powder(s)

**Color:**

Off-white.

**Odor:**

None

**Bulk density:**+/- 1200 kg/m<sup>3</sup> No information available**Melting Point/Freezing Point:**

No data available

**Boiling Point/Range:**

Solid. Not applicable.

<b>Flash Point:</b>	Solid. Not applicable.
<b>Evaporation Rate:</b>	Solid. Not applicable.
<b>Flammability (solid, gas):</b>	Not flammable
<b>Vapor Pressure:</b>	Solid. Not applicable.
<b>Vapour density</b>	Solid. Not applicable.
<b>Relative density</b>	No data available
<b>Water Solubility:</b>	No data available
<b>Solubility(ies)</b>	No data available
<b>Partition Coefficient:</b>	Solid. Not applicable.
<b>Autoignition Temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Explosive Properties:</b>	Doesn't present explosion hazard.
<b>Oxidizing Properties:</b>	May intensify fire; oxidizer.
<b><u>9.2. Other information</u></b>	
<b>VOC Content (%):</b>	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 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):**

<b>Inhalation</b>	Inhalation of dust in high concentration may cause irritation of respiratory system.
<b>Eye contact</b>	May cause slight irritation.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	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):* 43,424.00 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.
Urea phosphate	2600 mg/kg		
Iron-EDTA-13; Fe-EDTA	= 5 g/kg ( Rat ) > 5000 mg/kg ( Rat )	> 5000 mg/kg ( Rat )	> 2.05 g/m <sup>3</sup> ( Rat ) 4 h
Boric acid; H <sub>3</sub> BO <sub>3</sub>	= 2660 mg/kg ( Rat )	> 2000 mg/kg	> 0.16 mg/L ( Rat ) 4 h
Sodium molybdate; Na <sub>2</sub> MoO <sub>4</sub>	= 4233 mg/kg ( Rat )	> 2000 mg/kg (Rat)	> 2080 mg/m <sup>3</sup> ( 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

<b>Serious eye damage/eye irritation</b>	Classification based on individual ingredients of the mixture.
<b>Respiratory or skin sensitization</b>	Classification based on individual ingredients of the mixture.
<b>Germ Cell Mutagenicity</b>	Classification based on individual ingredients of the mixture.
<b>Carcinogenicity</b>	Classification based on individual ingredients of the mixture.
<b>Reproductive Toxicity</b>	Classification based on individual ingredients of the mixture.
<b>STOT - Single Exposure</b>	Classification based on individual ingredients of the mixture.
<b>STOT - Repeated Exposure</b>	Classification based on individual ingredients of the mixture.
<b>Aspiration Hazard</b>	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 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
Boric acid; H <sub>3</sub> BO <sub>3</sub>	-	1020: 72 h Carassius auratus mg/L LC50 flow-through	-	115 - 153: 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
Boric acid; H <sub>3</sub> BO <sub>3</sub>	-0.757

**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:** 3085

##### 14.2

**Proper shipping name:** Oxidizing solid, corrosive, n.o.s. (Potassium nitrate, Urea phosphate, )

##### 14.3

**Hazard Class:** 5.1 (8)

##### 14.4

**Packing group:** III  
**Limited Quantity** 0 kg

##### 14.5

**Marine Pollutant:** No information available

##### 14.6

**EmS:** F-A / S-Q

**Special Provisions** 274, 223

##### 14.7

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

#### ADR/RID

##### 14.1

**UN-No:** 3085

##### 14.2

**Proper shipping name:** Oxidizing solid, corrosive, n.o.s. (Potassium nitrate, Urea phosphate)

##### 14.3

**Hazard Class:** 5.1 (8)

##### 14.4

**Packing group:** III

##### 14.5

**Environmental Hazard** Not regulated

##### 14.6

**Special Provisions** 274

**Tunnel restriction code** E

**Limited Quantity** 0 kg

#### IATA

##### 14.1

**UN-No:** 3085

##### 14.2

**Proper shipping name:** Oxidizing solid, corrosive, n.o.s. (Potassium nitrate, Urea phosphate)

##### 14.3

**Hazard Class:** 5.1 (8)

##### 14.4

**Packing group:** III

##### 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

#### Denmark

Denmark

No data available

#### France

ICPE

Classified installation: article 1200

#### Germany

LGK (Germany)

5.1B

Water Endangering Class (WGK):

1 (Everris classification)

Gefahrstoffverordnung (Germany) TRGS 511

C III

Component	German WGK Section
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> 7778-80-5 ( 10 - 25% )	1
Urea phosphate 4861-19-2 ( 5 - 10% )	class 1
Iron-EDTA-13; Fe-EDTA 15708-41-5 ( 1 - 5% )	2
Manganese-EDTA, Mn-EDTA 15375-84-5 ( 0.1 - 1% )	2
Copper-EDTA; Cu-EDTA 14025-15-1 ( < 0.1% )	2
Boric acid; H <sub>3</sub> BO <sub>3</sub> 10043-35-3 ( < 0.1% )	1
Sodium molybdate; Na <sub>2</sub> MoO <sub>4</sub> 7631-95-0 ( < 0.1% )	1

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
Boric acid; H <sub>3</sub> BO <sub>3</sub> 10043-35-3 ( < 0.1% )		Use restricted. See item 30.

Component	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances for Eventual Inclusion in Annex XIV
Boric acid; H <sub>3</sub> BO <sub>3</sub> 10043-35-3 ( < 0.1% )	Reason for inclusion Toxic for reproduction, Article 57c (233-139-2)

### 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
Boric acid; H <sub>3</sub> BO <sub>3</sub>	Use restricted. See item 30.	



## Section 16: OTHER INFORMATION

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

- H302 - Harmful if swallowed
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage
- H360FD - May damage fertility. May damage the unborn child

### 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)

### Issue Date

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### Restrictions on use

Restricted to professional users

### Reason for revision

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

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