

# Safety Data Sheet

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Version: 2

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

### 1.1. Product identifier

Product Name Agroleaf Power High P; 12-52-5+TE  
 Product Code E20940315GB  
 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

## 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
Mono potassium phosphate; M.K.P.	231-913-4	7778-77-0	10 - 25%	Not classified	01-2119490224-41
Copper-EDTA; Cu-EDTA	237-864-5	14025-15-1	0.1 - 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 - 1%	Repr. 1B (H360FD)	01-2119486683-25

Component	SVHC candidates
Boric acid; H <sub>3</sub> BO <sub>3</sub> 10043-35-3 ( 0.1 - 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>	Possible symptoms are coughing and/or dyspnoea. If not breathing, give artificial respiration. If symptoms persist, call a physician.
<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>	Possible symptoms are nausea and/or vomiting. Clean mouth with water and drink afterwards plenty of water. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

### 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

<u>Suitable Extinguishing Media:</u>	Coordinate fire extinguishing measures to fire in surrounding area. Use dry chemical, CO <sub>2</sub> , water spray or "alcohol" foam.
<u>Unsuitable Extinguishing Media:</u>	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

<b>Personal Precautions:</b>	Sweep-up to prevent slipping hazard. Use personal protective equipment.
<b>For Emergency Responders:</b>	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

<u>Methods for Containment:</u>	Prevent further leakage or spillage if safe to do so.
<u>Methods for Cleanup:</u>	Sweep up and shovel.

### 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.
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**7.2. Conditions for safe storage, including any incompatibilities**

Technical measures/storage conditions:

Keep containers dry and tightly closed to avoid moisture absorption and contamination. 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:  
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; Read and follow label instructions  
Mixture. Not required.

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

**8.1. Control parameters**

<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>
Latvia - OEL - TWAs	10 mg/m <sup>3</sup> TWA
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>

**Derived No Effect Level (DNEL)**

Component	Oral	Dermal	Inhalation
Mono potassium phosphate; M.K.P. 7778-77-0 ( 10 - 25% )			4.07 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
Mono potassium phosphate; M.K.P. 7778-77-0 ( 10 - 25% )	0.05 mg/l		0.005 mg/l			

**8.2. Exposure controls**

**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:**

Wear suitable 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

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Crystals
<b>Color:</b>	light green.
<b>Odor:</b>	None
<b>Bulk density:</b>	800 - 1200 kg/m <sup>3</sup>
<b>pH:</b>	4 (@ 1%)
<b>Melting Point/Freezing Point:</b>	No data available
<b>Boiling Point/Range:</b>	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>9.2. Other information</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

Keep away from open flames, hot surfaces and sources of ignition. Burning produces obnoxious and toxic fumes.

### 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):

<b>Inhalation</b>	Inhalation of dust in high concentration may cause irritation of respiratory system.
<b>Eye contact</b>	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
Mono potassium phosphate; M.K.P.	= 3200 mg/kg ( Rat )	> 4640 mg/kg ( Rabbit )	
Boric acid; H <sub>3</sub> BO <sub>3</sub>	= 2660 mg/kg ( Rat )	> 2000 mg/kg	> 0.16 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
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

<b>Disposal of Wastes:</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging:</b>	Do not reuse container.
<b>Other Information</b>	Use up product completely. Packaging material is industrial waste.

## Section 14: TRANSPORT INFORMATION

### IMO / IMDG

<b>14.1</b>	
<b>UN-No:</b>	Not regulated
<b>14.2</b>	
<b>Proper shipping name:</b>	Not regulated
<b>14.3</b>	
<b>Hazard Class:</b>	Not regulated
<b>14.4</b>	
<b>Packing group:</b>	Not regulated
<b>14.5</b>	
<b>Marine Pollutant:</b>	No information available
<b>14.6</b>	
<b>Special Provisions</b>	None
<b>14.7</b>	
<b>Bulk transport according Annex II of MARPOL and IBC Code</b>	No data available

### ADR/RID

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

### IATA

<b>14.1</b>	
<b>UN-No:</b>	Not regulated
<b>14.2</b>	
<b>Proper shipping name:</b>	Not regulated
<b>14.3</b>	
<b>Hazard Class:</b>	Not regulated
<b>14.4</b>	
<b>Packing group:</b>	Not regulated
<b>14.5</b>	
<b>Environmental Hazard</b>	Not regulated
<b>14.6</b>	
<b>Special Provisions</b>	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 Not regulated

**Germany**

LGK (Germany) 13  
 Water Endangering Class (WGK): 1 (Everris classification)  
 Gefahrstoffverordnung (Germany) TRGS 511 Not regulated

Component	German WGK Section
Mono potassium phosphate; M.K.P. 7778-77-0 ( 10 - 25% )	1
Copper-EDTA; Cu-EDTA 14025-15-1 ( 0.1 - 1% )	2
Boric acid; H <sub>3</sub> BO <sub>3</sub> 10043-35-3 ( 0.1 - 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 - 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 - 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**

- 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)

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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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