

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form	: Mixture
Name	: Cerall
Type of product	: Fungicide
Product group	: Trade product

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

##### 1.2.1. Relevant identified uses

Main use category	: Agriculture
Industrial/Professional use spec	: For professional use only
Use of the substance/mixture	: Fungicide

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Koppert B.V.  
Veilingweg 14  
2651 BE Berkel en Rodenrijs - Netherlands  
T +31 (0)10-5140444 - F +31 (0)10-5115203  
[info@koppert.nl](mailto:info@koppert.nl) - [www.koppert.com](http://www.koppert.com)

#### 1.4. Emergency telephone number

Emergency number : +31-10-5140444

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements (CLP)	: P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

#### 2.3. Other hazards

Other hazards not contributing to the classification : Micro-organisms may have the potential to provoke sensitizing reactions.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Comments : The chemical nature is FS (Flowable Concentrate) for seed treatment  
Product contains of cells Pseudomonas chlororaphis MA342 (>=1x10<sup>9</sup> CFU/ml)

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Remove from exposure, lie down. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
First-aid measures after inhalation	: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : High volume water jet.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : May liberate toxic gases.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : When applying the product use disposable filtering face piece respirator to at least EN149 FFP3 or equivalent.

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

Storage conditions : Direct sunlight. Do not freeze. Heat sources. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible products : Oxidizing agent.

Incompatible materials : Heat sources.

Storage temperature : 4 – 8 °C

Storage area : Store away from heat.

### 7.3. Specific end use(s)

Cerall is a biological fungicide for seed dressing against seed borne fungal disease.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Appropriate engineering controls:

Keep in a cool place. Ensure good ventilation of the work station.

#### Materials for protective clothing:

Protective clothing

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

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### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Blue.
Odour	: Disagreeable. Sweetish.
Odour threshold	: No data available
pH	: 6.29 (100%) (24 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1020 g/l
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 1.204 mm <sup>2</sup> /s at 40 °C
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Product is not oxidising.
Explosive limits	: Not explosive

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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LD50 oral rat

>2x10<sup>10</sup> CFU/kg bw Pseudomonas chlororaphis MA342

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LC50 Inhalation - Rat	>1x10 <sup>8</sup> CFU/animal Pseudomonas chlororaphis MA342
LC50 Inhalation - Rat [ppm]	> 5x10 <sup>5</sup> CFU/MA342/animal, Test conducted with a similar formulation.

Skin corrosion/irritation	: Not classified pH: 6.29 (100%) (24 °C)
Serious eye damage/irritation	: Not classified pH: 6.29 (100%) (24 °C)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

<b>Cerall</b>	
Viscosity, kinematic	1.204 mm <sup>2</sup> /s at 40 °C
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: May cause long lasting harmful effects to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

<b>Cerall</b>	
LC50 fish 1	≈ 20.2 x10 <sup>10</sup> CFU/l in Oncorhynchus mykiss
LC50 fish 2	≈ NOEC = 1.4 x10 <sup>10</sup> CFU/l in Oncorhynchus mykiss

### 12.2. Persistence and degradability

<b>Cerall</b>	
Persistence and degradability	Not established.
Biodegradation	> 90 % after 21 days

### 12.3. Bioaccumulative potential

<b>Cerall</b>	
Bioaccumulative potential	No bioaccumulation data available.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				
<b>14.6. Special precautions for user</b>				
<b>Overland transport</b>				
Not regulated				
<b>Transport by sea</b>				
Not regulated				
<b>Air transport</b>				
Not regulated				
<b>Inland waterway transport</b>				
Not regulated				
<b>Rail transport</b>				
Not regulated				
<b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b>				
Not applicable				

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

<b>Full text of H- and EUH-statements:</b>	
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

SDS EU

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