

## **1. Identification of the substance/mixture and of the company/undertaking**

### 1.1 Product Identifier:

Seed Base

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

Supplied for use as a fertiliser

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

Chempak Products  
Thompson & Morgan  
Poplar Lane  
Ipswich  
Suffolk  
IP8 3BU

Contact: The Safety Officer

Telephone Number: 01473 588688 (Monday – Friday 8am to 5pm)

Or visit [www.chempak.com](http://www.chempak.com)

### 1.4 Emergency telephone number:

Emergency Telephone Number: 01473 588688 (Monday – Friday 8am to 5pm)

## **2. Hazards identification**

### 2.1 Classification of the substance or mixture

CLASSIFICATION according to Regulation (EC) 1272/2008 Classification, Labelling and Packaging

Eye Damage 1; H318: Causes serious eye damage

CLASSIFICATION according to Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulation

Not a hazardous substance or mixture according to Directive 1999/45/EC.

### 2.2 Label Elements

Labelling elements according to Regulation (EC) No. 1272/2008:

**Pictogram:**

GHS05



**Signal Word:** Danger

**Hazard Statements:**

H318: Causes serious eye damage

**Precautionary Statements:**

P101 if medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P280: Wear eye protection/face protection.

P305+351+338: 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.







### 2.3 Other Hazards

Mixture not classified as PBT or vPvB.

### 3. Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous components

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s)	Phrase(s)	Concentration [%]
Triple super phosphate	65996-95-4/ 266-030-3	-	<p>According to 1272/2008: GHS05</p>  <p>According to 67/548/EEC:</p>  <p>IRRITANT</p>	<p>According to 1272/2008: Eye Dam. 1; H318</p> <p>According to 67/548/EEC: Xi; R41</p>	<5
Copper sulphate pentahydrate	7758-99-8/ 231-847-6	029-004-00-0/ 01-2119520566-40	<p>According to 1272/2008: GHS07</p>  <p>GHS09</p>  <p>According to 67/548/EEC:</p>  <p>HARMFUL</p>  <p>DANGEROUS FOR THE ENVIRONMENT</p>	<p>According to 1272/2008: Acute Tox. 4, H302; Eye Irrit. 2; H319 Skin Irrit. 2, H315; Aquatic Acute 1, H400; Aquatic Chronic 1, H410</p> <p>According to 67/548/EEC: Xn; R22 Xi; R36/38 N; R50-53</p>	<1

All hazard information if not displayed in section 2 or 3 is displayed in Section 16.

## **4. First aid measures**

### 4.1 Description of first aid measures

#### 4.1.1 Inhalation

Keep patient calm, remove to fresh air and seek medical attention. If unconscious place in recovery position and seek medical advice.

#### 4.1.2 Skin & Eye exposure

Skin: Drench immediately with water. Remove any contaminated clothing and launder before re-use. Seek medical attention if symptoms persist or develop.

Eyes: Immediately rinse thoroughly with clean water for at least 15 minutes. Seek medical attention immediately.

#### 4.1.3 Ingestion

Wash out mouth with water and give water to drink. Do not induce vomiting. Seek medical attention if symptoms persist or develop.

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

No information specified.

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

Seek immediate medical attention in case of contact with eyes and rinse eyes immediately with plenty of water.

## **5. Firefighting measures**

### 5.1 Extinguishing media

Product is not classified as flammable. Use extinguishing media suitable for surrounding materials, e.g. Water; Water spray; Foam; Carbon Dioxide (CO<sub>2</sub>); Dry powder.

### 5.2 Special Hazards arising from the substance or mixture

No information specified.

### 5.3 Advice for fire-fighters

In the event of fire, wear self-contained breathing apparatus and protective suit.

## **6. Accidental release measures**

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

Avoid contact with skin and eyes. Avoid dust generation. Ensure adequate ventilation.

Use personal protective equipment:

- appropriate coveralls and gloves
- eye/face protection
- appropriate respirators

### 6.2 Environmental precautions

Do not empty into drains. Retain and dispose of contaminated wash water.

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

Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

### 6.4 Reference to other sections

For personal protection see section 8.

## **7. Handling and storage**

### 7.1 Precaution for safe handling

Avoid contact with skin and eyes. Wear protective goggles. Avoid dust generation. Wash hands before breaks and at the end of workday.

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

Store in a cool, dry place in original container.

### 7.3 Specific end use(s)

Always read the label and product information before use.

## **8. Exposure controls and personal protection**

### 8.1 Control Parameters

No workplace exposure limits specified in EH40/2005

### 8.2 Exposure controls

Engineering controls:

Ensure sufficient ventilation. Eye wash stations should be present.

Personal protective equipment:

Goggles – Eye Protection: goggles/face shield to BS EN166.

Gloves – BS EN374 – chemical protection: physical barrier protection only.

## **9. Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance; Powder

Colour; Brown/sandy

Odour; Information not available

Odour threshold; Information not available

pH; Information not available

Melting point/freezing; Information not available

Initial boiling point and boiling range; Information not available

Flash point; Information not available

Evaporation rate; Information not available

Flammability (solid, gas); The product is not flammable

Upper /lower flammability or explosive limits; Not applicable

Vapour Pressure; Not applicable

Vapour density; Not applicable

Specific gravity; Information not available

Solubility (ies); Insoluble

Partition coefficient: n-octanol/water; Not applicable

Auto ignition temperature: Not applicable

Decomposition temperature: Information not available

### 9.2 Other Information

No information specified

## **10. Stability and reactivity**

### 10.1 Reactivity

Information not available.

### 10.2 Chemical Stability

Stable under normal conditions of use.

### 10.3 Possibility of hazardous reactions

Information not available.

### 10.4 Conditions to avoid

Extremes of temperature.

### 10.5 Incompatible materials

Information not available.

### 10.6 Hazardous decomposition products

Information not available.

## 11. Toxicological information

### 11.1 Information on toxicological effects

The mixture has not been assessed for toxicological effects, the mixture classification is given in section 2 based on individual component contents. Individual component hazards if any are given in section 3.

Information on components:

#### Copper sulphate pentahydrate:

##### **Acute Toxicity:**

Oral;               LD50: ~480mg/kg, rat; OECD 401  
Dermal;           >2000mg/kg, rat; OECD 402  
Inhalation;       Not determined

##### **Skin corrosion/irritation:**

Dose:               0.5g, 4hr, rabbit; Not irritating

##### **Serious eye damage/irritation:**

OECD 405; Copper sulphate pentahydrate meets the criteria for causing serious eye damage. This is more severe than the harmonized classification as an eye irritant set out in Annex VI of Regulation EC 1272/2008.

##### **STOT – repeated exposure:**

A 90-day oral repeat dose study conducted with copper sulphate pentahydrate in rats and mice (test method equivalent to EU B.36) gave the following results:

Forestomach lesions:

NOAEL in the rat: 16.7 mg Cu/kg bw/day

NOAEL in male mice: 97 mg Cu/kg bw/day

NOAEL in female mice: 126 mg Cu/kg bw/day

Liver and kidney damage:

NOAEL in the rat: 16.7 mg Cu/kg bw/day

This study was used to calculate of an oral and systemic DNEL of 0.041 mg Cu/kg bw/day (including a safety factor of 100 and an oral absorption of 25%)

This does not meet the criteria for classification.

## **12. Ecological information**

### **12.1 Toxicity**

Mixture is not classified as hazardous to the environment.

Information on components:

#### Copper sulphate pentahydrate:

Acute aquatic toxicity:

Acute toxicity of copper ions was assessed using 451 L(E)C50 values from studies on soluble copper compounds. The lowest species-specific geometric mean reference value of 25.0µg Cu/L was an L(E)C50 obtained for *Daphnia magna* at pH 5.5 – 6.5.

Chronic freshwater toxicity:

PNEC 7.8 µg Cu/L

Chronic marine waters toxicity:

PNEC 5.2 µg Cu/L

Chronic freshwater sediment toxicity:

PNEC 87 mg Cu/kg dry weight

Chronic terrestrial toxicity:

PNEC 65.5 mg Cu/kg dry weight

Toxicity to sewage treatment plant (STP) micro-organisms:

PNEC 0.23 mg Cu/L

### **12.2 Persistence and degradability**

Information not available

### **12.3 Bioaccumulative potential**

Information not available

### **12.4 Mobility in soil**

Information not available

### **12.5 Results of PBT and vPvB**

Not classified

### **12.6 Other adverse effects**

Information not specified.



### **13. Disposal considerations**

#### 13.1 Waste Treatment Methods

Dispose of contents/container in accordance with local and national regulations.

### **14. Transport information**

14.1 UN number: No information available

14.2 UN proper shipping name: No information available

14.3 Transport hazard: No information available

14.4 Packing group: -

14.5 Environmental hazards: Not a marine pollutant

14.6 Special precautions for user: No Information available

14.8 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: No information available

### **15. Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. This substance/mixture is classified and labelled in accordance with Regulation EC 1272/2008, Directive 1999/45/EC, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EC Fertiliser Regulations 2003, Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

#### 15.2 Chemical Safety Assessment

CSA not undertaken for this product

## **16. Other information**

### **Full text of R-phrases referred to under sections 2 and 3**

R22: Harmful if swallowed

R36/38: Irritating to eyes and skin

R41: Risk of serious damage to eyes

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

H302: Harmful if swallowed

H315: Causes skin irritation

H318: Causes serious eye damage

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

### **SDS information:**

This Safety data sheet is compiled using data submitted for raw materials and practical experience.

This Safety Data Sheet is prepared in compliance with Directive 1999/45/EC, Regulation 1272/2008 and Annex I of the REACH Regulation 453/2010.

The information given herein is, to the best of our knowledge, correct and is presented in good faith but no warranty, expressed or implied is given.

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