

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

### 1.1 Product Identifier:

Tomato Food

### 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

Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects

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

N; R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### 2.2 Label Elements

Label elements according to Regulation (EC) 1272/2008:

**Hazard pictogram:** None

**Signal Word:** None

**Hazard statements:**

H412: Harmful to aquatic life with long lasting effects.

**Precautionary phrases:**

P501: Dispose of contents/container in accordance with national regulations.







### 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 [%]
Ferrous Sulphate	7782-63-0 / 231-753-5	026-003-01-4 / 01-2119513203-57-XXXX	<p>According to 1272/2008: GHS07</p>  <p>According to 67/548/EEC:  Xn; HARMFUL</p>	<p>According to 1272/2008: Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315: C ≥ 25 %</p> <p>According to 67/548/EEC: Xn; R22 Xi; R36/38</p>	0-5
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:  Xn; HARMFUL</p>  <p>N; 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>	0.1-1

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<p>Zinc Sulphate Hexahydrate</p>	<p>7733-02-0 / 231-793-3</p>	<p>030-006-00-9 / 01-2119474684-27</p>	<p>According to 1272/2008: GHS05</p>  <p>GHS07</p>  <p>GHS09</p>  <p>According to 67/548/EEC:</p>  <p>Xn; HARMFUL</p>  <p>N; Dangerous for the environment</p>	<p>According to 1272/2008: Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410</p> <p>According to 67/548/EEC: Xn; R22 Xi; R41 N; R50-53</p>	<p>0.1-1</p>
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## 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: Wash off with soap and water

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes. Seek medical attention if symptoms persist or develop.

#### 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.

Treat symptomatically.

## 5. Firefighting measures

### 5.1 Extinguishing media

This product is not classified as flammable. Use extinguishing media appropriate for surrounding material, i.e. 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 formation. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

### 6.2 Environmental precautions

Do not empty into drains. Retain and dispose of contaminated wash water. Inform the Environment Agency if product enters watercourse in large quantities.

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

Collect spill. 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. Avoid dust formation. Do not breathe dust. 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:

Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

#### Personal protective equipment:

Dust safety masks recommended where working powder concentration is more than 10mg/m<sup>3</sup>. Gloves are recommended. Safety glasses with side-shields. Do not wear contact lenses where this product is used. Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

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

### 9.1 Information on basic physical and chemical properties

Appearance; Powder

Colour; Red

Odour; Information not available

Odour threshold; Information not available

pH; Information not available

Melting point/freezing; Not applicable

Initial boiling point and boiling range; Not applicable

Flash point; Not applicable

Evaporation rate; Not applicable

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); Soluble

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

Avoid dust generation and 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.

Toxicological information on hazardous ingredients:

#### Ferrous sulphate:

Acute Toxicity:

Data for ferrous sulphate heptahydrate:

Oral LD50 657 - 4390 mg/kg (rat) (derived)

LD50 >2000 mg/kg (rat) (OECD 401)

Dermal LD50 >1992 mg/kg (rat) derived)

Primary irritant effect:

Skin: OECD 404: Irritant for skin and mucous membranes.

Eyes: OECD 405: Irritant effect.

Sensitisation: OECD 429 (LLNA-test): No sensitising effects.

Subacute to chronic toxicity:

Data for ferrous sulphate heptahydrate:

Oral NOAEL 284 - 324 mg/kg/d (rat, 90 days) (derived)

NOAEL 100 mg/kg/d (rat, 49 days)

#### Copper sulphate pentahydrate:

Acute Toxicity:

Oral LD50 480mg/kg (rat) (OECD 401)

Dermal LD50 >2000mg/kg (rat) (OECD 402)

Skin corrosion/Irritation:

Dose 0.5g 4hr Rabbit

Erythema/eschar score average <(1)

Oedema score No oedema

Test method: OECD 404. Not irritating.

Serious eye damage/irritation:

A test carried out in 3 male rabbits resulted in severe ocular irritation that was not reversible within the duration of the test.

Test Guideline OECD 405. Copper sulphate pentahydrate meets the criteria for causing serious eye damage.



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### Zinc Sulphate Hexahydrate:

Acute Toxicity:

Oral LD50 >574mg/kg (rat)

Dermal LD50 >2000mg/kg (rat) (OECD 402)

Inhalation (rat) 4 hours; Effects of inhalation exposure to zinc sulphate were limited to pulmonary effects only.

Serious eye damage/irritation:

Irritating. Test method: OECD 405.

## 12. Ecological information

### 12.1 Toxicity

The mixture is classified as harmful to aquatic life with long lasting effects.

Ecological information on hazardous ingredients:

#### Copper sulphate pentahydrate:

Acute aquatic toxicity:

L(E)C50 Daphnia magna 25.0µg Cu/L

Chronic freshwater toxicity:

PNEC (fish, invertebrates and algae) 7.8µg Cu/L

Chronic marine waters toxicity:

PNEC (fish, invertebrates and algae) 5.2µg Cu/L

Chronic freshwater sediment toxicity:

PNEC 87mg Cu/kg dry weight

Chronic terrestrial toxicity:

PNEC 65.5mg Cu/kg dry weight

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

PNEC 0.23mg Cu/L dry weight

#### Zinc sulphate hexahydrate:

Acute aquatic toxicity:

For zinc hexahydrate (a ZnSO<sub>4</sub>.6H<sub>2</sub>O/Zn molecular weight ratio of 4.12):

- for pH <7: 1.70 mg Zn/l (based on 48 hr Ceriodaphnia dubia test; US EPA 821-R-02-012 standard test protocol)
- for pH >7-8.5: 0.56 mg Zn/l (based on 72 hr Selenastrum capricornutum test; OECD 201 standard protocol)

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### 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

Information not available

### 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: No information available

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

### 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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