



# SAFETY DATA SHEET

FOLIAR FIX MAX P

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Compilation date: 05/03/2012

Revision date: June 2018

Revision No: 3-E

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

### 1.1. Product identifier

**Product name:** FOLIAR FIX MAX P

**Product code:** C030

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

**Use of substance / mixture:** PC12: Fertilizers.

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

**Company name:** Safagrow Limited

1 Stapledon Road

Orton Southgate

Peterborough

Cambs.

PE2 6TB

United Kingdom

**Tel:** +44 (0) 1733 367650

**Fax:** +44 (0) 1733 367651

**Email:** support@safagrow.com

### 1.4. Emergency telephone number

**Emergency tel:** 01733 367650

(office hours only)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CLP:** Aquatic Chronic 3: H412; Eye Irrit. 2: H319

**Most important adverse effects:** Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

**Label elements:**

**Hazard statements:** H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

**Hazard pictograms:** GHS07: Exclamation mark



[cont...]

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**Signal words:** Warning

**Precautionary statements:** P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P501: Dispose of contents/container to hazardous or special waste collection point.

## 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

##### COPPER SULPHATE PENTAHYDRATE

| EINECS    | CAS       | PBT / WEL | CLP Classification   | Percent |
|-----------|-----------|-----------|--|---------|
| 231-847-6 | 7758-99-8 | -         | Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Acute 1: H400; Aquatic Chronic 1: H410 | <1%     |

##### BORIC ACID

|           |            |   |                  |     |
|-----------|------------|---|------------------|-----|
| 233-139-2 | 10043-35-3 | - | Repr. 1B: H360FD | <1% |
|-----------|------------|---|------------------|-----|

##### ZINC CHLORIDE

|           |           |   |   |     |
|-----------|-----------|---|---|-----|
| 231-592-0 | 7646-85-7 | - | Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Chronic 1: H410; Aquatic Acute 1: H400 | <1% |
|-----------|-----------|---|---|-----|

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water. If irritation persists seek medical attention.

**Eye contact:** Bathe the eye with running water for 15 minutes. Seek medical attention.

**Ingestion:** Wash out mouth with water. Seek medical attention immediately and show container/label or this data sheet

**Inhalation:** Inhalation of product is unlikely If recovery is not rapid seek medical attention

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

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

[cont...]

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**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

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

**Immediate / special treatment:** Not applicable.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** This product is not flammable and does not support combustion. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

**Exposure hazards:** In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

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

**Personal precautions:** Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

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

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Usual hygiene practices apply. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

[cont...]

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

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

## 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

**ZINC CHLORIDE**

**Workplace exposure limits:**

**Respirable dust**

| State | 8 hour TWA          | 15 min. STEL        | 8 hour TWA | 15 min. STEL |
|-------|---------------------|---------------------|------------|--------------|
| UK    | 1 mg/m <sup>3</sup> | 2 mg/m <sup>3</sup> | -          | -            |

### DNEL/PNEC Values

**Hazardous ingredients:**

**BORIC ACID**

| Type | Exposure | Value | Population | Effect |
|------|----------|-------|------------|--------|
| -    | -        | -     | -          | -      |

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Protective gloves.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

## Section 9: Physical and chemical properties

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

**State:** Liquid

**Colour:** Green-blue

**Odour:** Perceptible odour

**Evaporation rate:** Negligible

**Oxidising:** No data available.

**Solubility in water:** Highly soluble

**Viscosity:** Viscous

**Boiling point/range°C:** >95

**Melting point/range°C:** 0

**Flammability limits %: lower:** Not applicable.

[cont...]

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**Flash point°C:** >93  
**Autoflammability°C:** No data available.  
**Relative density:** 1.57 - 1.62  
**VOC g/l:** Not applicable.

**upper:** Not applicable.  
**Part.coeff. n-octanol/water:** Not applicable.  
**Vapour pressure:** No data available.  
**pH:** 5.5 - 7.5

## 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat.

### 10.5. Incompatible materials

**Materials to avoid:** Acids. Oxidising agents.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Hazardous ingredients:**

#### BORIC ACID

|        |     |      |       |       |
|--------|-----|------|-------|-------|
| DERMAL | RBT | LD50 | >2000 | mg/kg |
| ORAL   | RAT | LD50 | >2000 | mg/kg |

#### ZINC CHLORIDE

|     |     |      |      |       |
|-----|-----|------|------|-------|
| IVN | RAT | LD50 | 3690 | µg/kg |
| ORL | MUS | LD50 | 329  | mg/kg |

[cont...]

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|     |     |      |     |       |
|-----|-----|------|-----|-------|
| ORL | RAT | LD50 | 350 | mg/kg |
|-----|-----|------|-----|-------|

## Relevant hazards for product:

| Hazard                        | Route | Basis                 |
|-------------------------------|-------|-----------------------|
| Serious eye damage/irritation | OPT   | Hazardous: calculated |

## Excluded hazards for substance:

| Hazard                         | Route | Basis                 |
|--------------------------------|-------|-----------------------|
| Acute toxicity (ac. tox. 4)    | -     | No hazard: calculated |
| Acute toxicity (ac. tox. 3)    | -     | No hazard: calculated |
| Acute toxicity (ac. tox. 2)    | -     | No hazard: calculated |
| Acute toxicity (ac. tox. 1)    | -     | No hazard: calculated |
| Skin corrosion/irritation      | -     | No hazard: calculated |
| Respiratory/skin sensitisation | -     | No hazard: calculated |
| Germ cell mutagenicity         | -     | No hazard: calculated |
| Carcinogenicity                | -     | No hazard: calculated |
| Reproductive toxicity          | -     | No hazard: calculated |
| STOT-single exposure           | -     | No hazard: calculated |
| STOT-repeated exposure         | -     | No hazard: calculated |
| Aspiration hazard              | -     | No hazard: calculated |

## Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Other information:** Not applicable.

## Section 12: Ecological information

### 12.1. Toxicity

#### Hazardous ingredients:

#### BORIC ACID

|               |          |     |      |
|---------------|----------|-----|------|
| Daphnia magna | 48H EC50 | 133 | mg/l |
| FISH          | 96H LC50 | 100 | mg/l |

### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

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## 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

## 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

## 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Do not reuse the container for any purpose. Dispose of in compliance with all local and national regulations.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

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

**Specific regulations:** Not applicable.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

[cont...]

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H319: Causes serious eye irritation.

H360FD: May damage fertility. May damage the unborn child.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

**Legal disclaimer:** The product should not be used for other purposes than those specified under section 1. Attention of users is drawn to the possible risks incurred when the product is used for purposes other than those for which it was designed. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. The company shall not be held liable for any damage resulting from handling or from contact with the above product.