

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

### 1.1. Product identifier

**Product name:** GREENHAZE BLOOM – PART A

**CAS number:** N/A (mixture)

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

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

### 1.3. Details of the supplier of the Safety Data Sheet

**Company name:** Growth Technology Ltd

Great Western Way

Taunton

TA2 6BX

United Kingdom

**Tel:** +44 (0)1823 325291

**Email:** [info@growthtechnology.com](mailto:info@growthtechnology.com)

### 1.4. Emergency telephone number

**Emergency Tel:** Growth Technology Limited:  
+44 (0)1823 325291 (office hours only)

UK National Poisons Information Service

0344 892 0111

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CLP:** Eye Dam. 1: H318

**Most important adverse effects:** Causes serious eye damage.

### 2.2. Label elements

**Label elements:**

**Hazard statements:** H318: Causes serious eye damage.

**Hazard pictograms:** GHS05: Corrosion



**Signal words:** Danger

**Precautionary statements:** P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

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P280: Wear eye 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.

P310: Immediately call a POISON CENTER or doctor.

**2.3. Other hazards**

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

**Section 3: Composition/information on ingredients**

**3.2. Mixtures**

**Ingredients:**

CALCIUM NITRATE TETRAHYDRATE (70% w/w calcium nitrate)

EINECS	CAS	PBT/WEL	CLP Classification	Percent
(calcium nitrate: 233-332-1)	13477-34-4	n/a	Acute Tox. 4: H302; Eye Dam. 1: H318	3 - 14 %

AMMONIUM NITRATE

229-347-8	6484-52-2	n/a	Ox. Solid 3: H272; Eye irrit. 2: H319	1 – 3 %
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NITRIC ACID

231-714-2	7697-37-2	2.6mg/m <sup>3</sup> 15min STEL	Ox. Liq. 2: H272; Skin Corr. 1A: H314	<0.6 %
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**Section 4: First aid measures**

**4.1. Description of first aid measures**

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

**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. The vision may become blurred. May cause permanent damage.

**Ingestion:** Nausea and stomach pain may occur

**Inhalation:** Exposure may cause coughing or wheezing.

**Dealted/immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

[cont...]

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** 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 procedure

**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. Wash the spillage site with large amounts of water.

### 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. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

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

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

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

### 7.3. Specific end use(s)

**Specific end use(s):** PC12: Fertilisers.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

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**NITRIC ACID**

**Workplace exposure limits:**

**Respirable Dust:**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 mi. STEL
UK	n/a	2.6 mg/m <sup>3</sup>	n/a	n/a

**DNEL/PNEC Values**

**CALCIUM NITRATE TETRAHYDRATE**

Type	Exposure	Value	Population	Effect
DNEL	Dermal	8.33 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	14.7 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Oral	4.17 mg/kg bw/day	General Population	Systemic
DNEL	Inhalation	3.15mg/m <sup>3</sup>	General Population	Systemic
DNEL	Dermal	4.17 mg/kg bw/day	General Population	Systemic
PNEC	Fresh Water	0.45 mg/l	-	Short Term
PNEC	Marine Water	0.045 mg/l	-	Short Term
PNEC	Microorganisms in sewage treatment	18 mg/l	-	Short Term

**8.2. Exposure controls**

- Engineering measures:** Ensure there is sufficient ventilation of the area.
- Respiratory protection:** Respiratory protection not required.
- Hand protection:** Protective gloves.
- Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.
- Skin protection:** Protective clothing.
- Environmental:** Prevent from entering in public sewers or the immediate environment.

**Section 9: Physical and chemical properties**

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

<b>State:</b> Liquid	<b>Solubility in water:</b> Miscible in all proportions
<b>Colour:</b> Pale yellow	<b>Autoflammability°C:</b> Not applicable.
<b>Odour:</b> Characteristic odour	<b>Relative density:</b> 1.15
<b>Evaporation rate:</b> No data available	<b>VOC g/l:</b> Not applicable
<b>Oxidising:</b> Non-oxidising (by EC criteria)	<b>Melting point/range°C:</b> Not applicable
<b>Viscosity:</b> Non-viscous	<b>Part.coeff. n-octanol/water:</b> No data available
<b>Boiling point/range °C:</b> ~100	<b>Vapour Pressure:</b> Not applicable
<b>Flammability limits %: lower:</b> Not applicable.	<b>pH:</b> 2.3 – 4.0
<b>upper:</b> Not applicable.	
<b>Flash point°C:</b> Not applicable.	

**9.2. Other information**

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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:** Strong oxidising agents. Strong acids.

**10.6. Hazardous decomposition products**

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

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Ingredients:**

**CALCIUM NITRATE TETRAHYDRATE**

DERMAL	RAT	LD50	2000	mg/kg
ORAL	RAT	LD50	>300 - <2000	mg/kg

**AMMONIUM NITRATE**

ORAL	RAT	LD50	2950	mg/kg
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**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

[cont...]

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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:** No symptoms expected.

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

**Ingestion:** Nausea and stomach pain may occur.

**Inhalation:** Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity values:** No data available.

**12.2. Persistence and degradability**

**Persistence and degradability:** Biodegradable.

**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 options:** Not applicable.

**Disposal of packaging:** Clean with water. Dispose of as normal industrial waste.

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

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**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:** according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

**Phrases used in s.2 and s.3:** H272: May intensify fire; oxidiser.  
H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H318: Causes serious eye damage.

**Legal disclaimer:** H319: Causes serious eye irritation.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.