

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

1.1. Product identifier

Product name: IONIC SOIL GROW

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

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 Irrit. 2: H319

Most important adverse effects: Causes serious eye irritation

2.2. Label elements

Label elements:

Hazard statements: H319: Causes serious eye irritation

Hazard pictograms: GHS07: Exclamation mark



Signal words: Warning

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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P264: Wash hands thoroughly after handling.

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.

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

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

EINECS	CAS	PBT/WEL	CLP Classification	Percent
233-332-1	10124-37-5	n/a	Ox. Solid 3: H272; Acute Tox. 4: H302; Eye Dam. 1: H318	1 – 2.95 %

AMMONIUM NITRATE

229-347-8	6484-52-2	n/a	Ox. Sol. 3: H272; Eye Irrit. 2: H319	1 – 2 %
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SODIUM MOLYBDATE

231-551-7	10102-40-6	5mg/m ³ 8H TWA; 10mg/m ³ 15min STEL	Not classified	0.003 %
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: 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.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious, check for breathing and apply artificial respiration if necessary.

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

Skin contact: No symptoms.

Eye contact: There may be irritation and redness. The eyes may water profusely. The vision may become blurred.

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

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

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

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 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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Workplace exposure limits:

Respirable Dust:

State	8 hour TWA	15 min. STEL	8 hour TWA	15 mi. STEL
EU	5 mg/m ³	10 mg/m ³	n/a	n/a

DNEL/PNEC Values

CALCIUM NITRATE

Type	Exposure	Value	Population	Effect
DNEL	Dermal	13.9 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	24.5 mg/m ³	Workers	Systemic
DNEL	Oral	8.33 mg/kg bw/day	General Population	Systemic
DNEL	Inhalation	6.3mg/m ³	General Population	Systemic
DNEL	Dermal	8.33 mg/kg bw/day	General Population	Systemic
PNEC	Fresh Water	0.45 mg/l	-	-
PNEC	Marine Water	0.045 mg/l	-	-
PNEC	Microorganisms in sewage treatment	18 mg/l	-	-

8.2. Exposure controls

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

Respiratory protection: Respiratory protection not required.

Hand protection: Not applicable.

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

Skin protection: Not applicable.

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

State: Liquid	Solubility in water: Miscible in all proportions
Colour: Dark brown	Autoflammability°C: Not applicable.
Odour: Characteristic odour	Relative density: 1.086
Evaporation rate: No data available	VOC g/l: Not applicable
Oxidising: Non-oxidising (by EC criteria)	Melting point/range°C: Not applicable
Viscosity: Non-viscous	Part.coeff. n-octanol/water: No data available
Boiling point/range °C: ~100	Vapour Pressure: Not applicable
Flammability limits %: lower: Not applicable.	pH: 2.3 – 4.0
upper: Not applicable.	
Flash point°C: 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

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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SODIUM MOLYBDATE

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	4233	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

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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: No symptoms.

Eye contact: There may be irritation and redness. The eyes may water profusely. The vision may become blurred.

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. May be reused following

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decontamination.

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: 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.

H318: Causes serious eye damage.

H319: Causes serious eye irritation

Legal disclaimer: 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.