

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

1.1 Product Identifier:

Incredibloom

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

Supplied for use as a fertilizer

1.3 Details of the supplier of the safety data sheet:

BGP

Branded Garden Products

Poplar Lane

Ipswich

Suffolk

IP8 3BU

Contact: The Safety Officer

Telephone Number: 0844 5731818 (Monday – Friday 8am to 5pm)

Or visit www.incredibloom.com

1.4 Emergency telephone number:

Emergency Telephone Number: 0844 5731818 (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

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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

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

2.3 Other Hazards

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

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 [%]
Ammonium nitrate	6484-52-2 229-347-8	01- 2119490981- 27-XXXX	According to 1272/2008: GHS07  GHS03  According to 67/548/EEC:  OXIDISING  IRRITANT	According to 1272/2008: Oxid. Solid 3; H272 Eye Irrit. 2; H319 According to 67/548/EEC: R8 R36	38.15%
Disodium tetraborate pentahydrate	12179-04-3 215-540-4	01- 2119490790- 32-XXXX	According to 1272/2008: GHS08  GHS07  According to 67/548/EEC:  TOXIC	According to 1272/2008: Repr. 1B; H360FD Eye Irrit. 2; H319 According to 67/548/EEC: Repr. Cat.2; R60-R61	≤ 0.56

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: 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. Seek medical attention if symptoms persist or develop.

4.2 Most important symptoms and effects, both acute and delayed

Ingestion may provoke the following symptoms: Methaemoglobinemia

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

Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Water

5.2 Special Hazards arising from the substance or mixture

At temperatures above 130 °C, dangerous decomposition gases can be emitted: Nitrogen monoxide, nitrogen dioxide, dinitrogen oxide, ammonia.

5.3 Advice for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from children.

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

Use mechanical handling equipment.

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precaution for safe handling

Protect from contamination. Keep away from direct sunlight. Protect against heat. Protect from moisture. The product is not flammable. Keep away from heat and sources of ignition. Keep away from combustible materials.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from heat. Keep away from sources of ignition - No smoking. Keep away from combustible material. Protect from contamination. When stored loose do not mix with other fertilizers. Protect against humidity (product is hygroscopic and tends to cake or disintegrate). Protect against water. Keep away from direct sunlight. Store well away from other substances. German storage class: 5.1C Ammonium nitrate and ammonium nitrate containing preparations.

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

DNEL

Ammonium Nitrate

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Specific effects

Exposure time: 1 d

Value: 37,6 mg/m³

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Specific effects

Exposure time: 1 d

Value: 21,3 mg/kg

End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Specific effects

Exposure time: 1 d

Value: 12,8 mg/kg

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Specific effects

Exposure time: 1 d

Value: 11,1 mg/m³

PNEC

Ammonium Nitrate

Fresh water

Value: 0,45 mg/l

Marine water

Value: 0,045 mg/l

Ceiling Limit Value

Value: 4,5 mg/l

8.2 Exposure controls

Personal protective equipment:

Respiratory protection:

Breathing apparatus only if aerosol or dust is formed.

Particle filter EN 143 Type P1, low efficiency, (solid particles of inert substances).

Hygiene measures:

At the end of the shift the skin should be cleaned and skincare agents applied.

Environmental exposure controls:

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

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance; Solid – various colours

Odour; Odourless

Odour threshold; Information not available

pH; ca. 5, Concentration: 100,00 g/l, 20 °C

Melting point/freezing; Information not available

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 in water

Partition coefficient: n-octanol/water; Not applicable

Auto ignition temperature: Not auto-flammable

Decomposition temperature: > 130 °C. To avoid thermal decomposition, do not overheat.

9.2 Other Information

Information not specified.

10. Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical Stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Evolution of ammonia under influence of alkalis.

10.4 Conditions to avoid

Keep away from heat and sources of ignition.

10.5 Incompatible materials

Sulphur, chlorites, chloride, chlorates, hypochlorites, acid or alkaline reacting substances, flammable oxidizable substances, nitrites, metallic salts, metallic powder, herbicide, chlorinated hydrocarbons, organic compounds.

10.6 Hazardous decomposition products

Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia.

11. Toxicological information

11.1 Information on toxicological effects

Product:

Acute oral toxicity: LD50: >2,000mg/kg, rat

Skin corrosion/irritation: rabbit, Result: non-irritant, OECD Test Guideline 404

Serious eye damage/eye irritation: rabbit, Result: non-irritant, OECD Test Guideline 405

Respiratory or skin sensitisation: Result: non-sensitising

Genotoxicity in vitro: Contains no hazardous ingredients according to GHS.

Carcinogenicity: Contains no hazardous ingredients according to GHS.

Reproductive toxicity: No toxicity to reproduction.

Teratogenicity: Did not show teratogenic effects in animal experiments.

STOT – single exposure: The mixture is not classified as specific target organ toxicant.

STOT – repeated exposure: The mixture is not classified as specific target organ toxicant.

Further information: The product was not tested. The statement was derived from products of similar structure and composition.

Components:

Ammonium Nitrate:

Acute oral toxicity: LD50: >2950mg/kg, rat, OECD Test Guideline 401

Acute inhalation toxicity: >88.8 mg/l, no information available

Acute dermal toxicity: LD50: >5000mg/kg, rat, OECD Test Guideline 402

Skin corrosion/irritation: rabbit, Result: non-irritant, OECD Test Guideline 404

Serious eye damage/eye irritation: rabbit, Result: non-irritant, OECD Test Guideline 405

Respiratory or skin sensitisation: Result: Does not cause skin sensitisation.

Genotoxicity in vitro: Result: negative, OECD Test Guideline 471

Carcinogenicity: rat, Animal testing did not show any carcinogenic effects.

Reproductive toxicity: rat, Animal testing did not show any effects on fertility.

Teratogenicity: rat, Did not show teratogenic effects in animal experiments.

STOT – repeated exposure: rat, Oral, Exposure Time: 28d, NOAEL: > 1500mg/kg

STOT – repeated exposure: rat, Oral, Exposure Time: 52w, NOAEL: =256mg/kg, OECD Test Guideline 453

STOT – repeated exposure: rat, by inhalation, Exposure Time: 2w, NOAEL: ≥185mg/kg, Repeated Dose Inhalation Toxicity: 28-day or 14-day study.

Disodium tetraborate pentahydrate:

Acute oral toxicity: LD50: 3200 – 3400mg/kg, rat

Acute inhalation toxicity: LC50: >2.0mg/l, rat, OECD Test Guideline 403

Acute dermal toxicity: LD50: >2000mg/kg, rabbit

Skin corrosion/irritation: rabbit, Result: No skin irritation

Serious eye damage/eye irritation: rabbit, Result: Moderate eye irritation, Classification: Irritant

Respiratory or skin sensitisation: Buehler Test, guinea pig, Result: Does not cause skin sensitisation, OECD Test Guideline 406

Germ cell mutagenicity Assessment: In vitro tests showed mutagenic effects.

12. Ecological information

12.1 Toxicity

Components:

Ammonium Nitrate:

Toxicity to fish: LC50: > 100mg/l, 96h, Fish

Toxicity to daphnia and other aquatic invertebrates: EC50: 490mg/l, 48h, Daphnia LC50: 490mg/l

Toxicity to algae: EC50: 1700mg/l, 10d, Selenastrum capricornutum (green algae)

Disodium tetraborate pentahydrate:

Toxicity to fish: LC50: 74mg/l, 96h, dab

Toxicity to daphnia and other aquatic invertebrates: EC50: 242mg/l, 24h, Daphnia magna (Water flea)

Toxicity to algae: EC10: 24mg/l, 96h, Scenedesmus subspicatus

12.2 Persistence and degradability

Product:

Biodegradability: The product works in the soil as a fertilizer and is diminished in a few weeks.

Components:

Ammonium nitrate:

Biodegradability: The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

12.4 Mobility in soil

Groundwater contamination is unlikely.

12.5 Results of PBT and vPvB

Not classified

12.6 Other adverse effects

There is a high probability that the product is not harmful to aquatic organisms. The information is derived from the properties of the individual components. At higher pH values, which can be found in natural surface waters, an increase of toxic effects on aquatic organisms may be expected.

13. Disposal considerations

13.1 Waste Treatment Methods

Check if agriculture use is possible. Contact manufacturer. Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport information

14.1 UN number: 2071

14.2 UN proper shipping name: No information available

14.3 Transport hazard: No information available

14.4 Packing group: No information available

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.

Water contaminating class (Germany): WGK 1 slightly water endangering.

Other regulations: TRGS 511 'Ammonium nitrate'

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

- R 8 Contact with combustible material may cause fire.
- R36 Irritating to eyes.
- R60 May impair fertility.
- R61 May cause harm to the unborn child.

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

- H272 May intensify fire; oxidiser.
- H319 Causes serious eye irritation.
- H360FD May damage fertility. May damage the unborn child.

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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty of quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.