

Material Safety Data Sheet

Issue: 02 - Jan 2021

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 1 of 6

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

1.1 Product Identifier Indigrow FreshLok

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

Relevant uses: Fertiliser. For professional use only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3. Details of the supplier of the safety data sheet

Company: Indigrow Ltd, The Old Bakery, Hyde End Lane, Brimpton, Berkshire, RG7 4RH. UK.

Phone: +44 (0) 1189 710 995

Email: growth@indigrow.com

1.4. Emergency telephone number +44 (0) 7725 962 366

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



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+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists: Get medical 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

3.1. Substances

Non-applicable.

Material Safety Data Sheet

Issue: 02 - Jan 2021

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 2 of 6

3.2. Mixtures

Hazardous ingredients:

Identification	EINECS	CAS	REACH	CLP Classification	Percent
Calcium Chloride Liquid	233-140-8	10043-52-4	01-2119494219-28-0016	Eye Irrit. 2: H319	50-70
Zinc Nitrate Hexahydrate	231-943-8	10196-18-6	-	Ox. Sol. 2: H272; Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; Aquatic Chronic 1: H410	<1%
Soluble Boron	234-541-0	12280-03-4	01-2119490860-33-XXXX	Repr. 1B: H360FD	<1%

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

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: Not applicable.

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.
 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.
 Delayed / 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: Not applicable.

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.

Material Safety Data Sheet

Issue: 02 - Jan 2021

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 3 of 6

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. 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 container tightly closed.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

Hazardous ingredients: ZINC SULPHATE HEXAHYDRATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	1 mg/m ³	Workers	Systemic
DNEL	Dermal	8.3 mg/kg	Workers	Systemic
DNEL	Oral	0.83 mg/kg	General Population	Systemic
DNEL	Inhalation	1.3 mg/m ³	General Population	Systemic
DNEL	Dermal	8.3 mg/kg	General Population	Systemic
PNEC	Fresh water	0.0206 mg/l	-	-
PNEC	Marine water	0.0061 mg/l	-	-
PNEC	Fresh water sediments	117.8 mg/kg	-	-
PNEC	Marine sediments	56.5 mg/kg	-	-
PNEC	Soil (agriculture)	35.6 mg/kg	-	-
PNEC	Microorganisms in sewage treatment	0.0052 mg/l	-	-



Material Safety Data Sheet

Issue: 02 - Jan 2021

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 4 of 6

8.2. Exposure controls

Engineering measures:

Respiratory protection:

Hand protection:

Eye protection:

Skin protection:

Ensure there is sufficient ventilation of the area.

Self-contained breathing apparatus must be available in case of emergency.

Protective gloves.

Tightly fitting safety goggles. Ensure eye bath is to hand.

Protective clothing.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State:	Liquid
Colour:	Green
Odour:	Odourless
Relative density:	1.24 - 1.28 kg/l
pH:	4.0 - 5.0

9.2. Other information

No additional information available

SECTION 10: Stability and Reactivity

10.1. Reactivity

Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of 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

Heat.

10.5. Incompatible materials

Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

In combustion emits toxic fumes.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Hazardous ingredients:

ZINC SULPHATE HEXAHYDRATE

DERMAL	RAT	LD50	>2000	mg/kg
DUST/MIST	RAT	1H LC50	>2000	mg/l
ORAL	RAT	LD50	300-2000	mg/kg

Material Safety Data Sheet

Issue: 02 - Jan 2021

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 5 of 6

SOLUBLE BORON

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

Relevant hazards for product:

Hazard: Serious eye damage/irritation
Route: OPT
Basis: Hazardous: 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.
Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

SECTION 12: Ecological Information

12.1. Toxicity

Hazardous ingredients:

CALCIUM CHLORIDE LIQUID

Daphnia Magna	48H EC50	2400	mg/l
FISH	24H LC50	>6660	mg/l
FISH	48H LC50	>6560	mg/l
FISH	96H LC50	4630	mg/l

ZINC NITRATE HEXAHYDRATE

Daphnia	48H EC50	5.2	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	2170	µg/l

12.2. Persistence and degradability

Biodegradable.

12.3. Bioaccumulative potential

No bioaccumulation potential.

12.4. Mobility in soil

Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Negligible ecotoxicity.



Material Safety Data Sheet

Issue: 02 - Jan 2021

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 6 of 6

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport Information

This product is not regulated for transport (ADR/RID,IMDG,IATA).

SECTION 15: Regulatory Information

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

Not applicable.

15.2. Chemical Safety Assessment

The supplier has not carried out evaluation of chemical safety.

16. OTHER INFORMATION

The information contained herein relates only to the designated formulation and may not be valid if product is used in combination with other substances. The information is to the best of our knowledge, belief and understanding, true, accurate and reliable at the date of issue. However, the information may neither be exhaustive or complete, and no warranty, guarantee or liability concerning the accuracy or completeness of the information is expressed or implied. It is the user's risk and sole responsibility to verify and satisfy their own criteria and duty of care concerning the validity of the information in relation to their application of the product.

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