

Impact Spectrum

Material Safety Data Sheet

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

1.1 Product Identifier Impact Spectrum

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

Relevant uses: Fertiliser. For professional use only.

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 according to Directive 67/548/EEC or 1999/45/EC:

Acute oral tox 5: H303
Skin Irrit. 2: H315
Eye Irrit. 2A: H319
STOT SE 3: H335
Repro tox 2: H361

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]:

Signal word: Danger



Hazard Statements:

H303: May be harmful if swallowed
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.

Precautionary Statements:

H361: Suspected of damaging fertility or the unborn child
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dust.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330: Rinse mouth.
P302+P352: IF ON SKIN: Wash with plenty of water.
P362+P364: Take off contaminated clothing and wash it before reuse.
P314: Get medical advice/attention if you feel unwell.
P405: Store locked up.
P501: Dispose of contents/container according to local regulations.

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2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical Name		CAS Number	Concentration %
Iron Sucrate	Iron oxide (70% - < 80%)	1317-61-9	33.0 %
	Calcium sulfate (20% - < 30%)	7778-18-9	
	Others components below reportable levels	-	
Dolomitic Lime	Natural Calcium carbonate magnesium (90% - 95%)	1317-65-3	29.2 %
	Lignosulfonate (5% - 10%)	-	
Manganese Sucrate	Manganese oxide (80% - 90 %)	1344-43-0	19.4 %
	Others components below reportable levels	-	
Boron/Molybdenum Sucrate	Sucrate mixture (50% - 65%)	-	14.4 %
	Borax (20% - < 30%)	1303-96-4	
	Sodium molybdate (< 0.3 %)	7631-95-0	
	Others components below reportable levels	-	
Magnesium Sucrate	Magnesium oxide (80% - < 90%)	1309-48-4	4.1 %
	Calcium hydroxide (1% - < 3%)	1305-62-0	
	Others components below reportable levels	-	

3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

If inhaled:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided by a qualified operator. Get medical attention if irritation develops and persists.
In case of skin contact:	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.
In case of eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.
If swallowed:	Induce vomiting, but only if victim is fully conscious. Never give anything by mouth to an unconscious person. Drink 1 or 2 glasses of water. Do not give milk or alcoholic beverages. Call a physician.

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

Inhalation:	Respiratory irritation.
Skin:	Skin irritation, redness.
Eyes:	Serious eye irritation
Ingestion:	May be fatal if a large quantity has been ingested: Abdominal pain. Diarrhea. Nausea. Vomiting. May cause drowsiness and loss of coordination.

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

Notes to physician: Treat symptomatically.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing agent suitable for type of surrounding fire. Avoid excessive water to minimize runoff. Prevent firefighter water from entering the environment.

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

Container may rupture on heating. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses. Explosive reactions with oxidizing agents such as potassium chlorate and/or peroxides. In case of fire hazardous decomposition products may be produced such as: sulphur oxides, ammonia, carbon monoxide, carbon dioxide (CO₂).

5.3. Advice for fire-fighters

In the event of fire and/or explosion do not breathe fumes. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.

6.2. Environmental precautions

Unprotected persons must be kept away. Evacuate personnel to safe areas. Provide adequate ventilation. Avoid dust formation. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment. Clean contaminated surface thoroughly. Pick up and arrange disposal without creating dust. Use a suitable vacuum cleaner.

6.4. Reference to other sections

No additional information available.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Handle with care. Wear personal protective equipment. Use only in well-ventilated areas. Avoid dust formation. Provide exhaust ventilation if dust is formed. Dust must be extracted directly at the point of origin. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Containers should be protected against falling down. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible substances.

7.3. Specific end use(s)

No data / information available.



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SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Exposure limit values of the components:

Borax: ACGIH TLV® = 2 mg/m³

Sodium molybdate: ACGIH TLV® = 0.5 mg/m³

8.2. Exposure controls

Provide exhaust ventilation if dust is formed. Dust must be extracted directly at the point of origin. Apply technical measures to comply with the occupational exposure limits.

Personal protective equipment

Hand protection:

Gloves. Gloves must be inspected prior to use. Replace when worn.

Eye protection:

Do not wear contact lenses. Wear as appropriate: Safety glasses with side-shields

Body protection:

Long sleeved clothing.

Respiratory protection:

A NIOSH approved air purifying respirator with a type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed if workplace conditions warrant a respirator use.

Hygiene measures:

Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use. Keep working clothes separately.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Multicolored granules, solid

Odour: Odourless

pH: No data available

Solubility in water: Partially soluble

9.2. Other information

No additional information available.

SECTION 10: Stability and Reactivity

10.1. Reactivity

Not reactive under normal storage and handling condition.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Keep at temperatures below 190 °C

10.5. Incompatible materials

Strong oxidising agents, chlorates and hypochlorites

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10.6. Hazardous decomposition products

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Hydrogen fluoride. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity:	Limestone:	Acute toxicity: LD50 Oral (Rat): >5000 mg/kg
Skin corrosion/irritation:	May irritate skin through mechanical abrasion	
Serious eye damage/irritation:	May cause eye irritation	
Respiratory or skin sensitisation:	No data available	

This product contains prismatic tremolite (e.g., cleavage fragments) as an impurity. Sufficient exposure to respirable prismatic tremolite dust may cause serious lung problems.

SECTION 12: Ecological Information

12.1. Toxicity

May be toxic to aquatic life. In sufficient quantity may deplete oxygen required by aquatic life. May cause eutrophication of ponds and lakes.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product is not classified.

12.6. Other adverse effects

May release ammonium ions that are toxic to fish. Un-ionized ammonia concentrations above 0.02 mg/l are considered toxic in fresh water. May release phosphates which will result in algae growth, increased turbidity, and depleted oxygen. At extremely high concentrations, this may be hazardous to fish or other marine organisms. Release to watercourses may cause effects downstream. Fish 96 hour LC50, OECD Guidelines 203 (rainbow trout): >86mg/L.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Recover or recycle if possible. Properly characterize all waste materials. Consult federal, state/provincial and local regulations regarding the proper disposal of this material. Prevent material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Empty containers should be taken to an approved waste handling site for recycling or disposal.



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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

REACH: This substance has been registered according to Regulation (EC) No. 1907/2006 (REACH).

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

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.

ISSUE 2 03/16 GCL
