

Indiflo

Triple Max

Material Safety Data Sheet

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

1.1 Product Identifier Indiflo Triple Max

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 2: H411; Eye Dam. 1: H318; STOT RE 2: H373
Most important adverse effects: Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard indications: H318: Causes serious eye damage.
H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

Hazard pictograms:



Signal words:

Cautionary advice: Danger
P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face 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.
P314: Get medical advice/attention if you feel unwell.

2.3. Other hazards

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

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Non applicable.

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3.2. Mixtures

Hazardous ingredients:

	EINECS	CAS	REACH	CLP Classification	Percent
Manganese Sulphate	232-089-9	7785-87-7	01-2119456624-35	STOT RE 2: H373; Aquatic Chronic 2: H411	10-30%
Zinc Sulphate Monohydrate	231-793-3	7446-19-7	-	Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Chronic 1: H410	1-10%
Monoethylene Glycol	203-473-3	107-21-1	-	Acute Tox. 4: H302	1-10%
Copper Sulphate	231-847-6	7758-98-7	-	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	1-10%

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: Remove casualty from exposure ensuring one's own safety whilst doing so. 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. 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

Eye bathing equipment should be available on the premises.

SECTION 5: Fire-Fighting Measures

5.1. 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

In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

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. Do not create dust. Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Refer to section 8 of SDS.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of dust in the air.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Workplace exposure limits:

Hazardous ingredients:

Workplace exposure limits:		MANGANESE SULPHATE	
	State:	EU	
	8 hour TWA	0.5 mg/m ³	
	15 min. STEL	-	
Workplace exposure limits:		MONOETHYLENE GLYCOL	
	State:	UK	
	8 hour TWA	52 mg/m ³	
	15 min. STEL	104 mg/m ³ (vapour)	
Workplace exposure limits:		COPPER SULPHATE	
	State:	UK	
	8 hour TWA	1 mg/m ³	
	15 min. STEL	2 mg/m ³	

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DNEL/PNEC:

Hazardous ingredients: MANGANESE SULPHATE

Type	Exposure	Value	Population	Effect
DNEL	Dermal	4.14ug/kg/day	Workers	Systemic
DNEL	Inhalation	0.2mg/m ³	Workers	Systemic
DNEL	Dermal	2.1ug/kg/day	Consumers	Systemic
DNEL	Inhalation	0.043mg/m ³	Consumers	Systemic
PNEC	Fresh Water	0.0128mg/l	-	-
PNEC	Marine Water	0.4ug/l	-	-
PNEC	Fresh Water Sediments	11.4ug/kg	-	-
PNEC	Marine Sediments	1.4ug/kg	-	-
PNEC	Soil (agricultural)	25.1mg/kg	-	-
PNEC	Microorganisms in sewage treatment	56mg/l	-	-

Hazardous ingredients: ZINC SULPHATE MONOHYDRATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	1 mg/m ³	Workers	Systemic
DNEL	Dermal	8.3mg/kg/day	Workers	Systemic
DNEL	Oral	0.83mg/kg/day	General Population	Systemic
DNEL	Inhalation	1.3 mg/m ³	General Population	Systemic
DNEL	Dermal	8.3mg/kg/day	General Population	Systemic
PNEC	Fresh Water	0.0206 mg/l	-	-
PNEC	Marine Water	0.0061 mg/l	-	-
PNEC	Fresh Water Sediments	235.6 mg/kg	-	-
PNEC	Marine Sediments	113 mg/kg	-	-
PNEC	Soil (agricultural)	106.8 mg/kg	-	-
PNEC	Microorganisms in sewage treatment	0.0052 mg/l	-	-

8.2. Exposure controls

Engineering measures:

Ensure there is sufficient ventilation of the area.

Respiratory protection:

Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

Hand protection:

Protective gloves.

Eye protection:

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

Skin protection:

Protective clothing.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State:

Liquid

Colour:

Information not specified

Relative density:

1.18 - 1.22 kg/L

pH:

2.0 - 3.0

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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 of use

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:

Manganese Sulphate	Dust/Mist	RAT	4H LC50	>4.45 mg/l
	Oral	RAT	LD50	2150 mg/kg
Zinc Sulphate Monohydrate	Dermal	RAT	LD50	>2000 mg/kg
	Oral	RAT	LD50	>2000 mg/kg
Monoethylene Glycol	IVN	RAT	LD50	3260 mg/kg
	ORL	MUS	LD50	5500 mg/kg
	ORL	RAT	LD50	4700 mg/kg
Copper Sulphate	IVN	RAT	LD50	48900 µg/kg
	ORL	MUS	LD50	369 mg/kg
	ORL	RAT	LD50	520 mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated



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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

Ecotoxicity values:

Hazardous ingredients: MANGANESE SULPHATE

Species	Test	Value
Algae	72H ErC50	61 mg/l
Daphnia magna	48H EC50	9.8 mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	14.5 mg/l

12.2. Persistence and degradability

Biodegradable.

12.3. Bioaccumulative potential

No bioaccumulation potential.

12.4. Mobility in soil

No data available.

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.

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

14.1. UN number

UN number: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



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14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

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

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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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