



# Fusion

## Tracer OneShot

### Material Safety Data Sheet

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

**1.1 Product Identifier** Fusion Tracer OneShot

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Relevant uses: Use as a professional use fertiliser.

**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

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#### 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**

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**

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

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#### SECTION 3: Composition/Information on Ingredients

**3.1. Substances**

Contains: Does not contain any substances classified as hazardous under 1272/2008 EC above the declarable thresholds.



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### 3.2. Mixtures

Hazardous components:

Chemical Name	EINECS-No.	CAS-No.	REACH number	CLP Classification	Percent [%]
Manganese Sulphate	232-089-9	7785-87-7	01-2119456624-35	STOT RE 2: H373; Aquatic Chronic 2: H411	1-10
Zinc Sulphate Hexahydrate	231-793-3	13986-24-8	01-2119474684-27	Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	1-10
Copper Sulphate Pentahydrate	231-847-6	7758-99-8	01-2119520566-40	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	<1

## 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

Information not available.

## 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.

## 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. Turn leaking containers leak-side up to prevent the escape of liquid.



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#### 6.2. Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding.

#### 6.3. Methods and material for containment and cleaning up

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

See also section 8

### 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 mists 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 information available

### SECTION 8: Exposure Controls/Personal Protection

#### 8.1. Control parameters

Hazardous ingredients:

MANGANESE SULPHATE

Workplace exposure limits:                      Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	0.5 mg/m <sup>3</sup>	-	-	-

#### DNEL/PNEC Values

#### Manganese Sulphate

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



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Zinc Sulphate Hexahydrate

Type	Exposure	Value	Population	Effect
DNEL	Dermal	1 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Inhalation	8.3 mg/kg	Workers	Systemic
DNEL	Oral	0.83 mg/kg	Consumers	Systemic
DNEL	Dermal	8.3 mg/kg	Consumers	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.
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:	Green
Odour:	Odourless
pH:	4.0 - 5.0

##### 9.2. Other information

No other relevant 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.



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#### 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 Hexahydrate

Dermal	RAT	LD50	>2000 mg/kg
Oral	RAT	LD50	>574 mg/kg

Copper Sulphate Pentahydrate

Dermal	RAT	LD50	>2000 mg/l
Oral	RAT	LD50	480 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.

#### 11.2. Other Information

None.

### SECTION 12: Ecological Information

#### 12.1. Toxicity

Hazardous ingredients:

Manganese Sulphate

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



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#### 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.

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### 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.

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### SECTION 14: Transport Information

This product does not require a classification for transport (ADR/RID,IMDG,IATA)

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### 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.

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### 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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