



Fusion

Liquid Fe

Material Safety Data Sheet

Issue: 05 - Jan 2021

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

1.1 Product Identifier Fusion Liquid Fe

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

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317
Most important adverse effects: Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

2.2. Label elements

Hazard Statements: H302: Harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
Hazard pictograms: GHS07: Exclamation mark



Signal words: Warning
Precautionary Statements P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321: Specific treatment (see supplemental first aid instruction on this label)
P362+P364: Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

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

SECTION 3: Composition/Information on Ingredients

3.1. Substance

Non-applicable



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3.2. Mixture

Hazardous ingredients:

	EINECS	CAS	REACH	CLP Classification	Percent
Ferrous Sulphate Heptahydrate	231-753-5	7782-63-0	01-2119613202-57	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315	10-30%
Citric Acid Monohydrate	201-069-1	5949-29-1	01-2119457026-42	Eye Irrit. 2: H319	1-10%
Potassium Carbonate	209-529-3	584-08-7	01-2119532646-36-XXXX	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335	1-10%
Acticide FI(N)	-	55965-84-9	-	Skin Corr. 1B: H314; Eye Dam. 1: H318; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Sens. 1: H317	<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.
Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

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

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.
Inhalation: Absorption through the lungs can occur causing symptoms similar to those of ingestion.
Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Not applicable.

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

Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

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

Refer to section 8 of SDS.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Avoid the formation or spread of mists in the air. Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.
Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

PC12: Fertilisers.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC:

Hazardous ingredients: CITRIC ACID MONOHYDRATE

Type	Exposure	Value	Population	Effect
PNEC	Fresh Water	0.44 mg/lit	-	-
PNEC	Marine Water	0.044 mg/lit	-	-
PNEC	Fresh Water Sediments	3.46 mg/lit	-	-
PNEC	Marine Sediments	34.6 mg/lit	-	-
PNEC	Microorganisms in sewage treatment	>1000 mg/lit	-	-
PNEC	Soil (agricultural)	33.1 mg/kg	-	-



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Hazardous ingredients: POTASSIUM CARBONATE

Type	Exposure	Value	Population	Effect
DNEL	Dermal	16	Workers	Local
DNEL	Inhalation	10	Workers	Local
DNEL	Dermal	8	Consumers	Local
DNEL	Inhalation	10	Consumers	Local

8.2. Exposure controls

Engineering measures:	Ensure all engineering measures mentioned in section 7 of SDS are in place.
Respiratory protection:	Respiratory protection not required.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. Safety goggles. Ensure eye bath is to hand.
Skin protection:	Protective clothing.
Environmental:	Not applicable.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State:	Liquid
Colour:	Brown
Odour:	Odourless
Relative density:	1.17 - 1.21 kg/L
pH:	2.5 - 3.5

9.2. Other information

No data 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.



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SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Hazardous ingredients:

Ferrous Sulphate Heptahydrate	Dermal	RAT	LD50	>2000 mg/kg
	Oral	RAT	LD50	300-2000 mg/kg
Citric Acid Monohydrate	Dermal	RAT	LD50	>2000 mg/kg
	Oral	MUS	LD50	5040 mg/kg
	Oral	RAT	LD50	3000 mg/kg
Potassium Carbonate	Dermal	RAT	LD50	>2000 mg/kg
	Dust/Mist	RAT	4H LC50	>4.96 ml/l
	Oral	RAT	LD50	>2000 mg/kg
Acticide FI(N)	Dermal	GPG	LD50	>5000 mg/kg
	Oral	GPG	LD50	>5000 mg/kg
	Vapours	GPG	LD50	>5 mg/l

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact:	There may be mild irritation at the site of contact.
Eye contact:	There may be irritation and redness.
Ingestion:	There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.
Inhalation:	Absorption through the lungs can occur causing symptoms similar to those of ingestion.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.
Other information:	Not applicable.

SECTION 12: Ecological Information

12.1. Toxicity

Hazardous ingredients: CITRIC ACID MONOHYDRATE

Species	Test	Value
Daphnia magna	24H EC50	1535 mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	48H EC50	440 mg/l

Hazardous ingredients: POTASSIUM CARBONATE

Species	Test	Value
Daphnia magna	48H EC50	>200 mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	68 mg/l



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Hazardous ingredients: ACTICIDE FI(N)

Species	Test	Value
Algae	72H ErC50	48 mg/l
Daphnia magna	48H EC50	0.1 mg/l
MARINE ALGAE (Skeletonema costatum)	48H EC50	0.0052 mg/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.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.
Recovery operations: Dispose of in compliance with all local and national requirements.
Disposal of packaging: Empty containers should be taken care of as hazardous waste according to local and national provisions.
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

Classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EC fertiliser Regulations 2003, Regulation (EC) No 1907/2006.

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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