

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

1.1 Product Identifier Solar Fe

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: Eye Irrit. 2: H319; Skin Irrit. 2: H315
Most important adverse effects: Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

Hazard statements: H315: Causes skin irritation.
H319: Causes serious eye irritation.
Hazard pictograms: GHS07: Exclamation mark



Signal words: Warning
Precautionary statements: P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+352: IF ON SKIN: Wash with plenty of water.
P305+351+338: 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 instructions on this label).
P332+313: If skin irritation occurs: Get medical attention.

2.3. Other hazards

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

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.

3.2. Mixtures

Hazardous components:

Chemical Name	EINECS-No.	CAS-No.	REACH number	CLP Classification	Percent [%]
Ferric Ammonium Citrate	214-686-6	1185-57-5	-	Skin Irrit. 2: H315; Eye Irrit. 2: H319	50-70
Citric Acid Monohydrate	201-069-1	77-92-9	01-2119457026-42	Eye Irrit. 2: H319	1-10

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

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.

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.

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 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

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.
Suitable packaging: Plastic containers.

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:

Citric Acid Monohydrate

Type	Exposure	Value	Population	Effect
PNEC	Fresh Water	0.44 mg/l	-	-
PNEC	Marine Water	0.044 mg/l	-	-
PNEC	Fresh Water Sediments	3.46 mg/kg	-	-
PNEC	Marine Sediments	34.6 mg/kg	-	-
PNEC	Microorganisms in sewage treatment	>1000 mg/kg	-	-
PNEC	Soil (agricultural)	33.1 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.
Environmental: No special requirement.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State: Liquid
Colour: Brown
Odour: Odourless
Relative density: 1.24 - 1.28 kg/l
pH: 6.0 - 7.0

9.2. Other information

Non-applicable

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

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:

Citric Adic Monohydrate

Dermal	RAT	LD50	>2000 mg/l
Oral	MUS	LD50	5040 mg/l
Oral	RAT	LD50	3000 mg/l

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	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:

Citric Acid Monohydrate

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

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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