

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

**1.1 Product Identifier** Solar C

**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 according to Directive EC 1272/2008 Classification, Labelling and Packaging  
 This mixture is not classified as dangerous to humans or the environment  
 CLASSIFICATION according to Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulation  
 This mixture is not classified as dangerous to humans or the environment  
 Primary Hazard: No hazard

**2.2. Label elements**



There are no statutory labelling requirements under Directive 1999/45/EC, regulation 1272/2008 and regulation 453/2012.

**2.3. Other hazards**

Non-applicable

SECTION 3: Composition/Information on Ingredients

Hazardous components:

Chemical Name	CAS-No./EINECS-No.	Annex Index or REACH number	Symbol(s)	R-phrases	Concentrations [%]
Citric Acid	77-92-9 / 201-069-1	REACH Number: 01-2119457026-42	According to 1272/2008: GHS07  According to 67/548/EEC:  Xi - IRRITANT	According to 1272/2008: Eye Irrit. 2, H319 According to 67/548/EEC: R36	< 2.0

The full hazard information for individual components if not displayed in section 2 or 3 are displayed in Section 16.



## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the MSDS of this product.

By inhalation:	If symptoms arise remove from source of exposure to fresh air; seek medical attention if symptoms persist or develop.
By skin contact:	Drench immediately with water. Remove any contaminated clothing and launder before re-use. Seek medical attention if symptoms persist or develop.
By eye contact:	Rinse cautiously for several minutes, Remove contact lenses, if present and easy to do, rinse with clean water for 15 minutes. Seek medical attention if symptoms persist or develop.
By consumption:	Do not induce vomiting. Wash out mouth with water and give water to drink. Seek medical attention if symptoms persist or develop.

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

May cause an allergic skin reaction.

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

Information not available.

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## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing media

Use Foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable as such extinguishing media should be chosen as appropriate for surrounding materials.

### 5.2. Special hazards arising from the substance or mixture

Possible irritant and corrosive fumes arising from combustion including oxides of nitrogen.

### 5.3. Advice for fire-fighters

Cool down containers/equipment exposed to heat with a water spray. Contain spread of extinguishing fluids (these fluids may be hazardous for the environment). Wear complete protective clothing and self-contained breathing apparatus.

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## SECTION 6: Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified.

Use personal protective equipment (see section 8): appropriate coveralls and gloves  
eye/face protection

Avoid contact with skin and eyes

### 6.2. Environmental precautions

Do not allow to enter storm drains or water courses. If this product enters a water course or a sewer (including via contaminated soil & vegetation), contact local water authority and inform the Environment Agency.

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

Use soil, sand or other absorbent material. Contact specialist waste disposal contractor.

### 6.4. Reference to other sections

See section 8 for personal protective equipment specification.

SECTION 7: Handling and Storage

**7.1. Precautions for safe handling**

Avoid contact with skin and eyes. Wash Hands thoroughly after handling

Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas.

Avoid contact with metals, avoid the formation of mists in the atmosphere, work in a well-ventilated area.

Avoid any direct contact with the product, Do NOT handle without gloves. Do NOT handle if hands have any cuts or wounds.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool dry atmosphere, in original labelled containers. Refer to manufacturer for maximum safe stacking height. Keep away from heat sources, combustible materials.

Store away from incompatible materials – Strong acids, Strong oxidising substances, powdered metals, inorganic peroxides.

**7.3. Specific end use(s)**

No specific information available.

SECTION 8: Exposure Controls/Personal Protection

**8.1. Control parameters**

Workplace exposure Limits as defined by UK HSE in document EH40/2005 where available:

Substance	CAS Number	Workplace Exposure Limit				Comments
		Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15 minute reference period)		
		ppm	mg.m <sup>-3</sup>	ppm	mg.m <sup>-3</sup>	
Propane-1,2-diol total vapour and particulates	57-55-6	150	474	-	-	The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to the substances identified in IOELV Directives*
particulates		-	10	-	-	

\*IOELV – Indicative Occupational Exposure Limit Values (IOLEV).

**8.2. Exposure controls**

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified.

Goggles:	Eye Protection: goggles/face shield to BS EN166.
Gloves:	Acid-resistant protective gloves. Long protective gloves, which go over the sleeves.
Skin and body protection:	Impermeable suit (Hypalon, Tyvek, Saranex, PVC...).
	Impermeable boots.
	Wear suitable protective clothing, gloves and eye/face protection.

Personal protective equipment must be defined after risk assessment for the workstation. Protective equipment must be chosen according to current CEN standards and in cooperation with the supplier of protective equipment.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Appearance:	Brown liquid
Odour:	Information not specified
Odour threshold:	Information not specified
pH:	5.5 – 6.5
Flammability (solid, gas):	Mixture not classified as Flammable
Upper /lower flammability or explosive limits:	Mixture not classified as Explosive
Specific gravity:	1.20 ± 0.04
Solubility(ies):	Information not specified

### 9.2. Other information

No other relevant information available.

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## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

May react with metals.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Information not available.

### 10.4. Conditions to avoid

Extremes of temperature

### 10.5. Incompatible materials

Powdered metals, metal containers.

### 10.6. Hazardous decomposition products

Possible Irritant fumes.

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## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

The mixture has not been assessed for toxicological effects. Full mixture classification is given in section 2. Individual component classifications are given in section 3 and 16.

Toxicological information on hazardous ingredients:

Citric acid	Acute toxicity:	LD/LC50:	Oral 3000mg/Kg (rat)
Primary irritant effect:	On the skin:		No irritant effect
	On the eye:		Irritating effect
	Sensitisation:		No sensitising effects known

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

Routes of exposure: The substance can be absorbed into the body by inhalation (of solution mist and dust) and by ingestion.



SECTION 12: Ecological Information

**12.1. Toxicity**

Mixture not classified as toxic to the environment in accordance with Directive 1999/45/EC and CHIP regulations 2009.

**12.2. Persistence and degradability**

Not available

**12.3. Bioaccumulative potential**

Not available

**12.4. Mobility in soil**

Not available

**12.5. Results of PBT and vPvB assessment**

Not classified

**12.6. Other adverse effects**

Not available

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SECTION 13: Disposal Considerations

**13.1. Waste treatment methods**

Use only licensed waste disposal companies. Do not re-use empty containers for any purpose.

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SECTION 14: Transport Information

This product is not regulated 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**

This substance is 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 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.#

**15.2. Chemical Safety Assessment**

The supplier has not carried out evaluation of chemical safety.

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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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