



# Fusion

## BioGreen 28-0-0

### Material Safety Data Sheet

Issue: 02 - Nov 2014

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

**1.1 Product Identifier** Fusion BioGreen 28-0-0

**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 according to Directive EC 1272/2008 Classification, Labelling and Packaging:  
Eye Irritation 2; H319: Causes serious eye irritation

Classification according to Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulation:  
Xi; R36: Irritant; R36: Irritating to eyes.

Primary Hazard: No hazard

**2.2. Label elements**

CLP Regulation (EC) n° 1272/2008:  
Warning



Hazard indications: H319: Causes serious eye irritation  
Cautionary advice: P280: Wear protective 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.  
P337+P313: If eye irritation persists: Get medical advice/attention.

**2.3. Other hazards**

Mixture not classed as PBT or vPvB.

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

##### Hazardous components:

Chemical Name	CAS-No./EINECS-No.	REACH number	Symbol(s)	R-phrases(s)	Concentrations [%]
Ammonium nitrate	6484-52-2 / 229-347-8	01-2119490981-27-0020	According to 1272/2008: GHS03  GHS07  According to 67/548/EEC:  OXIDISING  Xi - IRRITANT	According to 1272/2008: Ox. Sol. 3; H272 Eye irrit.2; H319  According to 67/548/EEC: R8, R36	≥ 10 - < 45

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

By inhalation: Remove from source of exposure to fresh air; seek medical attention.  
 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. Obtain medical attention immediately.

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

Information not available.

##### 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 also be chosen as appropriate for surrounding materials.

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

Possible irritant fumes arising from combustion.

##### 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: appropriate coveralls and gloves  
eye/face protection  
appropriate respirator

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) in large quantities contact local water authority and inform the Environment Agency.

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

Sweep avoiding generating dust into labelled containers for recovery or contact specialist waste disposal contractor.

##### 6.4. Reference to other sections

No reference necessary.

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#### 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.

##### 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.

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

No specific information available

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#### SECTION 8: Exposure Controls/Personal Protection

##### 8.1. Control parameters

Information not specified

DNEL:

DNEL	Oral	Inhalation	Dermal
Industry - Long Term - Systemic effects	-	37.6 mg/m <sup>3</sup>	21.3 mg/kg bw/d
Consumer - Long Term - Systemic effects	12.8 mg/kg bw/d	11.1 mg/m <sup>3</sup>	12.8 mg/kg bw/d

##### 8.2. Exposure controls

Goggles – Eye Protection : goggles/face shield to BS EN166.

Gloves – BS EN374 – chemical protection.

Respirators – BS approved protection device with P3 filter.

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#### SECTION 9: Physical and Chemical Properties

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

Appearance:	Liquid
Odour:	Information not specified
pH:	7.0 – 8.0
Melting point/freezing:	Information not specified
Specific gravity:	1.22 ± 0.02
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

Unknown.

##### 10.2. Chemical stability

Stable under normal conditions of use.

##### 10.3. Possibility of hazardous reactions

Information not available.

##### 10.4. Conditions to avoid

Extremes of temperature.

##### 10.5. Incompatible materials

None Known.

##### 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, the mixture classification is given in section 2 based on individual component contents. Individual component hazards are given in section 3.

Toxicological information on hazardous ingredients:

Ammonium nitrate: Acute toxicity: Ingestion Low acute toxicity. LD50(rat) > 5000 mg/kg bw/d.  
Inhalation Unlikely route of exposure.  
Skin Contact Low acute toxicity. LD50(rat): 2950 mg/kg bw.  
Eye Contact Low acute toxicity.

Skin corrosion/irritation: Non-irritant.  
Serious eye damage/irritation: Eye Irrit. 2; Causes serious eye irritation.  
Respiratory or skin sensitization: It is not a skin sensitiser.  
Mutagenicity: There is no evidence of mutagenic potential.  
Carcinogenicity: No evidence of carcinogenicity.  
Reproductive toxicity: Not classified. NOAEL ≥ 1500 mg/kg bw/d.  
STOT - single exposure: No data. Not classified.  
STOT - repeated exposure: NOAEL: 256 mg/kg bw/d [Chronic, (rat)]. Chronic effects are unlikely.  
Aspiration hazard: Not classified.

##### 11.2. Other Information

None.

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#### SECTION 12: Ecological Information

##### 12.1. Toxicity

Mixture Classified as Not Toxic to the environment in accordance with the Dangerous Preparations Directive 1999/45/EC.

Components:

Ammonium Nitrate:

Toxicity to fish: LC50: > 100 mg/l, 96 h, Fish  
Toxicity to daphnia and other aquatic invertebrates.: EC50: 490 mg/l, 48 h, Daphnia; LC50: 490 mg/l  
Toxicity to algae: EC50: 1.700 mg/l, 10 d, Selenastrum capricornutum (green algae)

##### 12.2. Persistence and degradability

Readily biodegradable

##### 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 described



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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, including amendments. Regulation (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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