



# Fusion

## Granular Fe

### Material Safety Data Sheet

Issue: 01 - Sep 2016

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 1 of 7

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

**1.1 Product Identifier** Fusion Granular 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**

Directive 67/548/EC and Directive 1999/45/EC:

In accordance with Directive 67/548/EC and Directive 1999/45/EC, the product is not classified as dangerous.

CLP Regulation (EC) n° 1272/2008:

The product is not classified as dangerous according to CLP Regulation (EC) n° 1272/2008.

**2.2. Label elements**

CLP Regulation (EC) n° 1272/2008:

Hazard Statements: Non-applicable  
Precautionary Statements P260: Do not breathe dust/fume/gas/mist/vapours/spray  
P281: Use personal protective equipment as required  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**2.3. Other hazards**

Non-applicable

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

**3.1. Substance**

Chemical description: Miscellaneous products

Components: In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Identification	Chemical Name/Classification	Concentration
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH: Non-applicable	Not a hazardous substance (Not-classified)	95-<100%
	Directive 67/548/EC	
	Regulation 1272/2008	

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

**3.2. Mixture**

Non-applicable



# Fusion

## Granular Fe

### Material Safety Data Sheet

Issue: 01 - Sep 2016  
Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 2 of 7

#### SECTION 4: First-Aid Measures

##### 4.1. Description of first aid measures

Consult a doctor in case of discomfort with this Safety data Sheet.

By inhalation:	In case of symptoms, move the person affected into fresh air.
By skin contact:	In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet.
By eye contact:	Rinse with water until the product has been eliminated. In case of problems, consult a doctor with the SDS of this product.
By consumption:	In case of consumption in large quantities, it is recommended to seek medical assistance.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

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#### SECTION 5: Fire-Fighting Measures

##### 5.1. Extinguishing media

Product is non-flammable, low risk of fire by the inflammability characteristics of the product in normal conditions of storage, manipulation and use. In the case of the existence of sustained combustion as a result of improper manipulation, storage or use any type of extinguishing agent can be used (ABC Powder, water,...).

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

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

##### 5.3. Advice for fire-fighters

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

##### Additional Provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

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#### SECTION 6: Accidental Release Measures

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

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal.

##### 6.2. Environmental precautions

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

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

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal.

##### 6.4. Reference to other sections

See sections 8 and 13.



# Fusion

## Granular Fe

### Material Safety Data Sheet

Issue: 01 - Sep 2016  
Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 3 of 7

#### SECTION 7: Handling and Storage

##### 7.1. Precautions for safe handling

Precautions for safe manipulation:

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

Technical recommendations for the prevention of fires and explosions:

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

Technical recommendations to prevent ergonomic and toxicological risks:

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

Technical recommendations to prevent environmental risks:

It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2.

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

Technical measures for storage: Minimum Temp: 0°C  
Maximum Temp: 40°C  
Maximum Time: 36 Months

General conditions for storage: Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5.

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

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

##### 8.1. Control parameters

Substances whose occupational exposure limits have to be monitored in the work environment (EH40/2005 Workplace exposure limits):

Nuisance dust: Inhalable dust 10 mg/m<sup>3</sup>  
Respirable dust 4 mg/m<sup>3</sup>

DNEL (Workers): Non-applicable  
DNEL (Population): Non-applicable  
PNEC: Non-applicable

##### 8.2. Exposure controls

General security and hygiene measures in the work place:

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

Respiratory Protection: The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

Specific protection for the hands: Non-applicable

Ocular and facial protection: Non-applicable

Bodily protection: Non-applicable

Additional emergency measures: It is not necessary to take additional emergency measures.



# Fusion

## Granular Fe

### Material Safety Data Sheet

Issue: 01 - Sep 2016

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 4 of 7

#### Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D.

#### Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	0 % weight
V.O.C. density at 20°C:	0 kg/m <sup>3</sup> (0 g/L)
Average carbon number:	Non-applicable
Average molecular weight:	Non-applicable

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#### SECTION 9: Physical and Chemical Properties

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

Physical state at 20 °C:	Solid
Appearance:	Granulated
Color:	Grey
Odor:	Not available
Solubility Properties:	Soluble with difficulty
Flash Point:	Non Flammable (>60°C)

##### 9.2. Other information

No other relevant information available.

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#### SECTION 10: Stability and Reactivity

##### 10.1. Reactivity

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

##### 10.2. Chemical stability

Chemically stable under the conditions of storage, handling and use.

##### 10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

##### 10.4. Conditions to avoid

Applicable for handling and storage at room temperature:

Shock and friction:	Not applicable
Contact with air:	Not applicable
Increase in temperature:	Not applicable
Sunlight:	Not applicable
Humidity:	Not applicable

##### 10.5. Incompatible materials

Acids:	Avoid strong acids
Water:	Not applicable
Combustive materials:	Not applicable
Combustible materials:	Not applicable
Others:	Avoid alkalis or strong bases

##### 10.6. Hazardous decomposition products

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.



# Fusion

## Granular Fe

### Material Safety Data Sheet

Issue: 01 - Sep 2016

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 5 of 7

#### SECTION 11: Toxicological Information

##### 11.1. Information on toxicological effects

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

Ingestion: Acute toxicity : Based on available data, the classification criteria are not met  
 Corrosivity/Irritability: Based on available data, the classification criteria are not met  
 Inhalation: Acute toxicity : Based on available data, the classification criteria are not met  
 Corrosivity/Irritability: Based on available data, the classification criteria are not met  
 Contact with the skin and the eyes: Contact with the skin: Based on available data, the classification criteria are not met  
 Contact with the eyes: Based on available data, the classification criteria are not met  
 CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):  
 Carcinogenicity: Based on available data, the classification criteria are not met  
 Mutagenicity: Based on available data, the classification criteria are not met  
 Reproductive toxicity: Based on available data, the classification criteria are not met  
 Sensitizing effects: Respiratory: Based on available data, the classification criteria are not met  
 Cutaneous: Based on available data, the classification criteria are not met  
 Specific target organ toxicity (STOT)-time exposure:  
 Based on available data, the classification criteria are not met  
 Specific target organ toxicity (STOT)-repeated exposure:  
 Based on available data, the classification criteria are not met  
 Skin: Based on available data, the classification criteria are not met  
 Aspiration hazard: Based on available data, the classification criteria are not met  
 Other information: Non-applicable  
 Specific toxicology information on the substances:

Identification	Acute Toxicity		Genus
Not a hazardous substance CAS: Non-applicable EC: Non-applicable	LD50 oral	> 2000 mg/kg	
	LD50 dermal	> 2000 mg/kg	
	LC50 inhalation	Non-applicable	

#### SECTION 12: Ecological Information

##### 12.1. Toxicity

Not available

##### 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 available

##### 12.6. Other adverse effects

Not described



# Fusion

## Granular Fe

### Material Safety Data Sheet

Issue: 01 - Sep 2016  
Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 6 of 7

#### SECTION 13: Disposal Considerations

##### 13.1. Waste treatment methods

Code	Description	Waste Class (Directive 2008/98/EC)
06 10 99	Wastes not otherwise specified	Non dangerous

Type of waste (Regulation (EU) No 1357/2014):  
Non-applicable

Waste management (disposal and evaluation):  
Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:  
In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated  
Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000

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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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable  
Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable  
Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable  
Article 95, REGULATION (EU) No 528/2012: Non-applicable  
REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):  
Non-applicable

Specific provisions in terms of protecting people or the environment:  
It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:  
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009, 2009 No. 716  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885  
Control of Substances Hazardous to Health Regulations 2002 (as amended)  
EH40/2005 Workplace exposure limits  
The Waste Regulations 2011, 2011 No. 988

##### 15.2. Chemical Safety Assessment

The supplier has not carried out evaluation of chemical safety.



# *Fusion* Granular Fe Material Safety Data Sheet

Issue: 01 - Sep 2016

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 7 of 7

## 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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