

Fusion

Soluble NPK

Material Safety Data Sheet

Issue: 02 - Nov 2014

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 1 of 5

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

1.1 Product Identifier Fusion Soluble NPK

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 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

Mixture not classed as PBT or vPvB.

SECTION 3: Composition/Information on Ingredients

Hazardous components:

Chemical Name	CAS-No./EINECS-No.	REACH number	Symbol(s)	R-phrases(s)	Concentrations [%]
Potassium Nitrate	7757-79-1 / 231-818-8	-	According to 1272/2008: GHS03  According to 67/548/EEC:  OXIDISING	According to 1272/2008: Oxidising solid cat 3. – H272 According to 67/548/EEC: R8	40.0 - 50.0

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



Fusion

Soluble NPK

Material Safety Data Sheet

Issue: 02 - Nov 2014
Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 2 of 5

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

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.

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 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.

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

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

See section 8 for personal protective equipment specification



Fusion

Soluble NPK

Material Safety Data Sheet

Issue: 02 - Nov 2014

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 3 of 5

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

Exposure limit values have not been determined for this mixture

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:	Green Solid
Odour:	Information not specified
pH:	Information not specified
Melting point/freezing:	Information not specified
Flammability (solid, gas):	Mixture not classified as Flammable
Upper /lower flammability or explosive limits:	Mixture not classified as Explosive
Specific gravity:	Not Applicable
Solubility(ies):	Information not specified

9.2. Other information

No other relevant information available.



Fusion

Soluble NPK

Material Safety Data Sheet

Issue: 02 - Nov 2014

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 4 of 5

SECTION 10: Stability and Reactivity

10.1. Reactivity

May react with metals.

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

Powdered metals, metal containers

10.6. Hazardous decomposition products

Possible Irritant fumes.

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:

Potassium nitrate

Carcinogenicity:

-

Skin absorption/sensibility:

-

Mutagenicity:

-

Pregnancy:

LD50 oral rat:

± 3115 mg/kg

LD50 dermal rat:

-

LD50 dermal rabbit:

-

LC50 inhalation rat:

-

11.2. Other Information

None.

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

Information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available



Fusion

Soluble NPK

Material Safety Data Sheet

Issue: 02 - Nov 2014
Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 5 of 5

12.5. Results of PBT and vPvB assessment

Not classified

12.6. Other adverse effects

Not described

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

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

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

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.

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.

ISSUE 2 11/14 GCL