



Fusion

Soluble NPK

Material Safety Data Sheet

Issue: 03 - Feb 2015

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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	15.0 - 25.0

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



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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

Information not available.

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 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.

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.

Ensure adequate ventilation

Use personal protective equipment:	appropriate coveralls and gloves
	eye/face protection
	suitable respirator if dust is generated during handling

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 also section 8



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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.

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 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

Considered for handling bulk concentrate

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

Gloves – BS EN374 – chemical protection: physical barrier protection only

Suitable engineering controls should be in place for measuring and decanting of product. Avoid formulation of dust

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	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.

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.



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10.4. Conditions to avoid

Extremes of temperature.

10.5. Incompatible materials

Metals

10.6. Hazardous decomposition products

Possible Irritant fumes.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

This mixture has not been assessed for toxicological effects as the mixture is not classified as dangerous based on its individual components.

Toxicological information on hazardous ingredients:

Potassium nitrate

Rat oral LD50 [mg/kg] : > 3000

Rat inhalation LC50 [mg/l/4h] : No data available.

Other toxicological information : May cause eye irritation.

By ingested of large quantities, it may cause effects on the blood system resulting in the formation of methaemoglobin. The effects may be delayed. Seek medical advice.

11.2. Other Information

None.

SECTION 12: Ecological Information

12.1. Toxicity

Mixture not classified as harmful to aquatic life.

12.2. Persistence and degradability

Information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information 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 for unwanted chemical. Do not re-use empty containers for any purpose, dispose of packaging in accordance with local regulations.

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, including amendments.

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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