



Fusion

Soluble High K

Material Safety Data Sheet

Issue: 02 - Feb 2015

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 1 of 6

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

1.1 Product Identifier Fusion Soluble High K

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
Oxidising solid cat. 3. H272 May intensify fire; oxidiser.

CLASSIFICATION according to Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulation)
O, Oxidising; R8 Contact with combustible material may cause fire
Primary Hazard: Harmful if swallowed, causes serious eye irritation, causes skin irritation.

2.2. Label elements



Warning

Hazard Statements: H272: May intensify fire; oxidiser.

Precautionary Statements P210: Keep away from heat. — No smoking.
P220: Keep/Store away from clothing/combustible materials.
P221: Take any precaution to avoid mixing with combustibles

2.3. Other hazards

Mixture not classed as PBT or vPvB.

Fusion

Soluble High K



Material Safety Data Sheet

Issue: 02 - Feb 2015

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 2 of 6

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	>97

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: 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 or if large quantities ingested.

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

Doctor: administration of chemical antidote application of 100% oxygen methylene blue (intravenous).

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.



Fusion

Soluble High K

Material Safety Data Sheet

Issue: 02 - Feb 2015

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 3 of 6

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

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

Prevent dispersion by covering with dry sand/earth. Scoop solid spill into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See also section 8

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.

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

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

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.



Fusion

Soluble High K

Material Safety Data Sheet

Issue: 02 - Feb 2015

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 4 of 6

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	Solid colourless/white crystalline powder
Odour:	Odourless
pH:	3 - 11 (1% w/w)
Melting point/freezing:	± 334°C
Initial boiling point and boiling range:	Decomposes at >400°C
Flammability (solid, gas):	Mixture not classified as Flammable
Upper /lower flammability or explosive limits:	Mixture not classified as Explosive
Vapour Pressure:	< 0.001 kPa (20°C)
Relative density:	± 2.1 g/cm ³
Solubility (ies):	Water ± 32 g/100ml Alcohol ± 0.16 g/100ml
Decomposition temperature:	>400°C

9.2. Other information

No other relevant information available.

SECTION 10: Stability and Reactivity

10.1. Reactivity

Reacts with:- Strong acids, Strong oxidising substances, powdered metals, inorganic peroxides.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Information not available.

10.4. Conditions to avoid

KEEP SUBSTANCE AWAY FROM: combustible materials, reducing agents, (strong) acids, metals, organic materials.

10.5. Incompatible materials

Strong acids, Strong oxidising substances, powdered metals, inorganic peroxides.

10.6. Hazardous decomposition products

On heating/burning: release of toxic and corrosive gases/vapours; nitrous vapours and oxides of potassium.

Decomposes on exposure to temperature rise: release of oxygen.

Reacts with (some) acids: release of toxic and corrosive gases/vapours nitrous vapours.

Violent to explosive reaction with many compounds e.g.: with organic material, with combustible materials, with (some) metals and their compounds and with (strong) reducers.



Fusion

Soluble High K

Material Safety Data Sheet

Issue: 02 - Feb 2015

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 5 of 6

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:

Carcinogenity:	-
Skin absorption/sensibility:	-
Mutagenicity:	-
Pregnancy:	LD50 oral rat: ± 3115 mg/kg
	LD50 dermal rat: -
	LD50 dermal rabbit: -
	LC50 inhalation rat: -

ROUTES OF EXPOSURE: INGESTION, INHALATION, EYES AND SKIN
ACUTE EFFECTS/SYMPTOMS AFTER INHALATION OF DUST:

AFTER ABSORPTION OF HIGH QUANTITIES:
FOLLOWING SYMPTOMS MAY APPEAR LATER:

ON CONTINUOUS EXPOSURE/CONTACT:
ON CONTINUOUS EXPOSURE/CONTACT:
ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:

CHRONIC EFFECTS:

Dry/sore throat. Coughing. Irritation of the respiratory tract.
Gastrointestinal complaints. Vomiting. Nausea. Diarrhoea.
Blood in stool. Methemoglobinemia.
Blue/grey discolouration of the skin. Dizziness. Feeling of weakness. Disturbances of heart rate. Headache.
Disturbances of consciousness. Red skin.
Tingling/irritation of the skin. Redness of the eye tissue.
Irritation of the eye tissue.
Skin rash/inflammation. Practic. non-toxic if swallowed (LD50 oral 2000/5000 mg/kg). Slightly irritant to skin.
Slightly irritant to respiratory organs. Obstructs oxygen absorption.
Not classified as toxic to reproduction (EC).
Not listed in mutagenicity class (EC,MAK).
Not listed in carcinogenicity class (IARC,EC,TLV,MAK).

11.2. Other Information

None.

SECTION 12: Ecological Information

12.1. Toxicity

Mild water pollutant (surface water). Ground water pollutant. Insufficient data available on ecotoxicity.
Slightly harmful to plankton (EC50 >1000 mg/l). May cause eutrophication.

12.2. Persistence and degradability

Information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Soluble in water

12.5. Results of PBT and vPvB assessment

Not classified

12.6. Other adverse effects

Not described



Fusion

Soluble High K

Material Safety Data Sheet

Issue: 02 - Feb 2015

Indigrow Ltd Safety data sheet according to Regulation (EC) No. 1907/2006. Page 6 of 6

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

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

Waste code:	02 01 08* agrochemical waste containing dangerous substances
	06 10 02* wastes containing dangerous substances
	15 01 10* packaging containing residues of or contaminated by dangerous substances
1st KGA code:	VI
2nd KGA code:	PROVISIONS RELATING TO WASTE Hazardous waste (91/689/EEC).
DISPOSAL METHODS:	Do not discharge into surface water. Remove to an authorized waste treatment plant.

SECTION 14: Transport Information

14.1 UN number:	1486
14.2 UN proper shipping name:	Potassium nitrate
14.3 Transport hazard:	5.1
14.4 Packing group:	III
14.5 Environmental hazards:	Product is unclassified for transport.
14.6 Special precautions for user:	Product is unclassified for transport
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	Applicable for Maritime bulk transport only. Check with carrier.

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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