

Fusion Granular

Material Safety Data Sheet

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1. IDENTIFICATION OF PRODUCT AND COMPANY

Product and Brand Name	FUSION GRANULAR
Supplier	Indigrow Ltd
Address	Lower Farm Barns, Wasing, Aldermaston, Berkshire. RG7 4 NG
Contact Number Tel:	+44 (0) 118 9710995 Fax: +44 (0) 118 971 0990
Emergency Number Tel:	+44 (0) 7725 962 366

2. COMPOSITION – INFORMATION ON INGREDIENTS

Chemical name	EU No.	CAS No.	Conc. %	Hazard Risk
Iron Oxide	-	8047-67-4		
Magnesium Compounds	-	7439-95-4		
Manganese Compounds as Mn	-	7439-96-5		
Zinc Compounds as Zn	-	7440-66-6		
Cupric Oxide (Cu ₂ O)	-	1317-39-1		
Boron Oxide as Boron	-	1303-86-2		
Quartz (SiO ₂)	-	14808-60-7		
CaO	-	1305-78-8		

3. HAZARD IDENTIFICATION

Not hazardous.

4. FIRST AID MEASURES

Inhalation:	If exposed to excessive levels of dust or fumes, remove to fresh air and seek medical attention if cough or other symptoms develop. If not breathing, give artificial respiration or give oxygen by trained personnel, and get medical attention.
Skin & eye exposure:	Rinse immediately with plenty of water. Seek medical attention if irritation persists.
Eyes:	Flush eyes immediately with water for at least 15 minutes. Seek medical attention if irritation persists.
Ingestion:	If ingested in sufficient quantity and victim is conscious, give 1-2 glasses of water or milk. Never give anything by mouth to an unconscious person. Leave decision to induce vomiting to qualified medical personnel, since particles may be aspirated into the lungs. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

Emergency Overview:	Not a fire or spill hazard. Low toxicity; dry dust is a nuisance particulate. Generally, health effects are provided for exposure to dust that may be generated during product transfer and handling.
Flammable Properties:	Material will not burn. No unusual fire or explosion hazards.
Extinguishing Media:	Use extinguishing media appropriate to combustibles in the surrounding area.
Protection for Firefighters:	Wet material should be kept out of eyes and off skin. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Material does not give off toxic fumes in a fire unless molten.

6. ACCIDENTAL RELEASE MEASURES

Containment:	Product is dry solid (granular or powder) and not readily soluble in water. However, prevent spilled product from entering streams, water bodies, and wastewater systems.
Clean Up:	Vacuum or sweep up dry material and place in a container for reuse. Avoid creating excessive airborne dust. Cleanup personnel need to wear approved respiratory protection (air-purifying or air-supply), gloves, long-sleeved clothing and goggles to prevent irritation from contact and inhalation.
Evacuation:	Isolate hazard area. Keep unnecessary and unprotected personnel from entering.
Potential Environmental Effects:	Prevent spilled product from entering streams, water bodies, and wastewater systems. This material is used as an agricultural product.

7. HANDLING AND STORAGE

Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with skin and eyes.
Store in a cool, dry area. Keep container closed when not in use. Segregate from products with which it can react including: hydrogen peroxide, calcium hypochlorite, and fluorine gas.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls:	If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits listed.
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Eye Protection:	Particulate may cause slight to moderate irritation. Abrasive action of dust particulate can damage eye. Wear protective safety goggles when dust generation is likely.
Skin Protection:	Prolonged or repeated contact may cause slight to moderate irritation. Wear clothing sufficient to cover the skin, safety shoes, and leather gloves for hand protection against dry material
Respiratory Protection:	Overexposure by inhalation of airborne particulate, dust, or fumes is irritating to the nose, throat, and respiratory tract. Inhalation of excessive levels of dust or fumes may be harmful. Wear face shield or goggles to BS 2092. Wear type approved dust mask
Work and Hygienic Practices:	Wash thoroughly after using product. Wash contaminated clothing. Wash hands before eating or drinking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Freezing Point:	Solid at STP
% volatile by vol:	0% H ₂ O
Water solubility:	Slight
Melting Point:	>2000 °C
Vapor Density:	N/A
pH:	(10% aqueous slurry) N/A
Boiling Point:	N/A
Vapor Pressure:	N/A
Appearance and Odour:	Dry, black, free-flowing granules 1mm in size. Odourless.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage.
Conditions to Avoid:	None under normal conditions.
Incompatibility (materials to avoid):	Components in the product can react violently when mixed with hydrogen peroxide, ethylene oxide, and nitric acid. Violent reaction occurs when heated with powdered aluminium; calcium disilicide; magnesium; metal acetylides. Mixtures with aluminium and sulphur react violently if heated. Ignites on contact with hydrogen trisulfide.
Hazardous Decomposition or by-products:	None under normal conditions.
Hazardous Polymerization:	Will not occur.

11. TOXOLOGICAL INFORMATION

Acute oral:	LD50 oral rat > 2000 mg/kg
Eye and skin contact:	May cause eye irritation and skin
Sensitisation:	Non-sensitising based on mouse local lymph node assay
Carcinogenicity:	Lack of epidemiological evidence over long use implies that it is non carcinogenic
Mutagenicity:	No evidence of Mutagenicity.
Reproductive toxicity:	No evidence of reproductive toxicity

12. ECOLOGICAL INFORMATION

Precautions:	Notify Environment Agency immediately if large spillage enters drains, sewers or water courses.
Ecotoxicity:	Not Classified

13. DISPOSAL CONSIDERATION

Disposal Methods:	Product requires controlled waste disposal in accordance with Control of Pollution Act 1974 and Special Waste Regulations 1980.
Packaging:	Do not re-use packaging for any other purpose. Dispose of used packaging in accordance with Special Waste Regulations 1980.

14. TRANSPORT INFORMATION

Transport:	Material is not classified as hazardous or dangerous for transport according to current international regulations.
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15. REGULATORY INFORMATION

Labeling EEC Regulations:

Material is not classified

16 OTHER INFORMATION

Validity

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.