

# VITAX SAFETY INFORMATION SHEET

Date of Issue: February 2004  
Revision date: 13 May 2015

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. Product identifier** ENHANCE R OUTFIELD AUTUMN & WINTER  
6-2-10+TE
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Fertiliser
- 1.3. Details of the supplier of the safety data sheet**  
Vitax Limited, Owen Street, Coalville, Leicestershire LE67 3DE  
Tel: +44 (0) 1530 510060 Fax: +44 (0) 1530 510299
- 1.4. Emergency telephone number** Tel: +44 (0) 1530 510060 Mon - Fri 9am - 5pm

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification  
Physical hazards Not Classified  
Health hazards Eye Irrit. 2 - H319  
Environmental hazards Aquatic Chronic 3 - H412

### 2.2. Label elements



Pictogram  
Signal word Warning  
Hazard statements H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.  
Precautionary statements P264 Wash contaminated skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with national regulations.

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Chemical Name	CAS-No./ EINECS-No.	Symbol(s) and phrases	Precautionary statements:	Concentration [%]
SSP Single Superphosphate	8011-76-5/ 232-379-5	Eye Irrit. 2 - H319		10-30%
Zinc Sulphate Monohydrate	7446-20-0/ 231-793-3	Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 M factor (Acute) = 1 M factor (Chronic) = 1		<1%
Boric acid (boron)	10043-35-3/ 233-139-2	Repr. 1B - H360FD		<1%
Copper Sulphate	7758-99-8/ 231-847-6	Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 M factor (Acute) = 10 M factor (Chronic) = 10		<1%
Manganese Sulphate Monohydrate	10034-96-5 / 232-089-9	Eye Dam. 1 - H318 STOT RE 2 - H373 Aquatic Chronic 2 - H411		<1%

The Full Text for all Hazard Statements are Displayed in Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

Inhalation Get medical attention if symptoms are severe or persist.  
Ingestion Get medical attention if symptoms are severe or persist.

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Skin contact	Wash skin thoroughly with soap and water or use an approved skin cleanser. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 10 minutes. Get medical attention if symptoms are severe or persist after washing.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	
Inhalation	Dust in high concentrations may irritate the respiratory system.
Ingestion	No harmful effects expected from quantities likely to be ingested by accident.
Skin contact	Skin irritation should not occur when used as recommended.
Eye contact	Prolonged or repeated exposure may cause severe irritation. May cause severe eye irritation.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	
Notes for the doctor	Treat symptomatically.

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## SECTION 5: FIREFIGHTING MEASURES

<b>5.1. Extinguishing media</b>	
Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Not applicable.
<b>5.2. Special hazards arising from the substance or mixture</b>	
Specific hazards	None known.
<b>5.3. Advice for firefighters</b>	
Protective actions during firefighting	No specific firefighting precautions known.
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
Personal precautions	Avoid inhalation of dust and contact with skin and eyes. Use suitable respiratory protection if ventilation is inadequate. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Take care as floors and other surfaces may become slippery.
<b>6.2. Environmental precautions</b>	
Environmental precautions	The product is slowly degradable. Avoid the spillage or runoff entering drains, sewers or watercourses. Harmful to aquatic life with long lasting effects.
<b>6.3. Methods and material for containment and cleaning up</b>	
Methods for cleaning up	Take care as floors and other surfaces may become slippery. Collect and dispose of spillage as indicated in Section 13.
<b>6.4. Reference to other sections</b>	
Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.

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## SECTION 7: HANDLING AND STORAGE

<b>7.1. Precautions for safe handling</b>	
Usage precautions	Read label before use. Wear appropriate clothing to prevent repeated or prolonged skin contact. Avoid inhalation of dust and contact with skin and eyes.
Advice on general occupational hygiene	Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	
Storage precautions	Store in a dry place.
<b>7.3. Specific end use(s)</b>	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1. Control parameters</b>	
Occupational exposure limits	
Sand (L)	Long-term exposure limit (8-hour TWA): Silica Dust (respirable) WEL 0.1 mg/m <sup>3</sup>
Ammonium Sulphate	Long-term exposure limit (8-hour TWA): LTEL 10 mg/m <sup>3</sup>
Urea	Long-term exposure limit (8-hour TWA): WEL 10 mg/m <sup>3</sup> inhalable dust Long-term exposure limit (8-hour TWA): WEL 4 mg/m <sup>3</sup> respirable dust
Boric acid (boron)	Long-term exposure limit (8-hour TWA): 10 mg/m <sup>3</sup>
Manganese Sulphate Mono	Long-term exposure limit (8-hour TWA): WEL 0.5 mg/m <sup>3</sup>
WEL = Workplace Exposure Limit	
Potash (CAS: 7447-40-7)	DNEL Workers - Dermal; Short term systemic effects: 580 mg/kg/day

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	Workers - Dermal; Long term systemic effects: 580 mg/kg/day Workers - Inhalation; Short term systemic effects: 292 mg/m <sup>3</sup> Workers - Inhalation; Long term systemic effects: 292 mg/m <sup>3</sup> PNEC Industry - Fresh water; 0,047 mg/l - Marine water; 0,047 mg/l
SSP Single Superphosphate (CAS: 8011-76-5)	DNEL Workers - Inhalation; Long term systemic effects: 3.1 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 17.4 mg/kg/day General population - Inhalation; Long term systemic effects: 0.9 mg/m <sup>3</sup> General population - Oral; Long term systemic effects: 2.1 mg/kg/day General population - Dermal; Long term systemic effects: 10.4 mg/kg/day PNEC - Fresh water; 1.7 mg/l - Marine water; 0.17 mg/m <sup>3</sup> - Intermittent release; 17 mg/l - STP; 10 mg/l
Zinc Sulphate Monohydrate (CAS: 7446-20-0)	DNEL Industry - Inhalation; Long term systemic effects: 1 mg/m <sup>3</sup> Industry - Dermal; Long term systemic effects: 8.3 mg/kg/day Consumer - Oral; Long term systemic effects: 0.83 mg/kg/day Professional - Inhalation; Long term systemic effects: 1.3 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 8.3 mg/kg/day PNEC - Fresh water; 0.0206 mg/l - Marine water; 0.0061 mg/l - Sediment (Freshwater); 235.6 mg/kg - Sediment (Marinewater); 113 mg/kg - Soil; 106.8 mg/kg - STP; 0.0052 mg/l
Boric acid (boron) (CAS: 10043-35-3)	DNEL Industry - Dermal; Long term systemic effects: 68.6 mg/kg/day Industry - Inhalation; Long term systemic effects: 1.45 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 0.17 mg/kg/day Consumer - Inhalation; Long term systemic effects: 0.97 mg/m <sup>3</sup> Consumer - Oral; Short term systemic effects: 0.17 mg/kg/day Consumer - Dermal; Long term systemic effects: 34.3 mg/kg/day PNEC - Fresh water; 1.35 mg/l - Marine water; 1.35 mg/l - Intermittent release; 9.1 mg/l - Sediment; 1.8 mg/kg - Soil; 5.4 mg/kg - STP; 1.75 mg/l
Copper Sulphate (CAS: 7758-99-8)	DNEL Industry - Oral; Long term systemic effects: 0.041 mg/kg/day Industry - Oral; Short term systemic effects: 0.082 mg/kg/day

## 8.2. Exposure controls

Protective equipment	Appropriate engineering controls. All handling should only take place in well-ventilated areas.
Eye/face protection	Wear eye protection.
Hand protection	Wear protective gloves.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Respiratory protection	No specific recommendations.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Granules.
Colour	Beige. to Dark brown. or Black.
Odour	Mild.
Odour threshold	Not determined.
pH	Slightly Acidic
Melting point	Not relevant.
Initial boiling point and range	Not relevant.
Flash point	Not relevant.
Evaporation rate	Not relevant.

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Flammability (solid, gas)	The product is not flammable.
Vapour pressure	Not relevant.
Vapour density	Not relevant.
Relative density	Not relevant.
Solubility(ies)	Not known.
Partition coefficient	Not known.
Auto-ignition temperature	Not relevant.
Decomposition Temperature	Not relevant.
Viscosity	Not relevant.
Explosive properties	Not relevant.
Oxidising properties	Does not meet the criteria for classification as oxidising.
<b>9.2. Other information</b>	No information required.

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## SECTION 10: STABILITY AND REACTIVITY

<b>10.1. Reactivity</b>	No test data specifically related to reactivity available for this product or its ingredients.
<b>10.2. Chemical stability</b>	Stable when stored in a dry place.
<b>10.3. Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
<b>10.4. Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
<b>10.5. Incompatible materials</b>	None known.
<b>10.6. Hazardous decomposition products</b>	None known.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity – oral	
Notes (oral LD50)	No specific test data are available.
Acute toxicity - dermal	
Notes (dermal LD50)	No specific test data are available.
Acute toxicity - inhalation	
Notes (inhalation LC50)	No specific test data are available.
Serious eye damage/irritation	Irritation of eyes is assumed. In-vitro testing conducted on products with SSP Content <62%, 2015, Result: Reduced classification to Eye Irritant. Test Guideline OECD 438. This result is less severe than the harmonized classification for Super Phosphates as Eye Damage 1 H318.
Respiratory sensitisation	No specific test data are available.
Skin sensitisation	Not determined.
Germ cell mutagenicity	
Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.
Carcinogenicity	No specific test data are available.
Reproductive toxicity	
Reproductive toxicity – fertility	Contains a small amount of Boron which is a SVHC and may damage fertility and may cause damage to the unborn child.
Specific target organ toxicity - single exposure	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure. Contains Manganese Sulphate Mono - STOT RE2 - Target Organ - Brain. Supplier information: "MnSO4 is already classified under Directive 67/548/EEC as R48/20/22 and under GHS as STOT RE2. Data exists showing some neurochemical changes at low levels after inhalation exposure for 90 days, together with locomotor changes, around 3mg/m <sup>3</sup> concentration, suggesting that significant toxicity could occur at the 20-200 mg/m <sup>3</sup> concentration level, which supports the current classification of STOT RE 2 for the inhalation route. "
Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.
Eye contact	The product is considered to be a low hazard under normal conditions of use. May cause eye irritation.

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## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Harmful to aquatic life with long lasting effects. The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. Contains Copper Sulphate Contains Manganese Sulphate Mono Contains Zinc Sulphate Mono
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<b>12.1. Toxicity</b>	
<b>12.2. Persistence and degradability</b>	The product is slowly degradable.
<b>12.3. Bioaccumulative potential</b>	Partition coefficient Not known.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	This product does not contain any substances classified as PBT or vPvB.
<b>12.6. Other adverse effects</b>	Not relevant.

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## SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1. Waste treatment methods</b>	
General information	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods	Reuse or recycle products wherever possible. No specific disposal method required.

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## SECTION 14: TRANSPORT INFORMATION

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
<b>14.1. UN number</b>	Not applicable.
<b>14.2. UN proper shipping name</b>	Not applicable.
<b>14.3. Transport hazard class(es)</b>	No transport warning sign required.
<b>14.4. Packing group</b>	Not applicable.
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance/ marine pollutant	No.
<b>14.6. Special precautions for user</b>	Not applicable.
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

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## SECTION 15: REGULATORY INFORMATION

<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). 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) (as amended).
<b>15.2. Chemical safety assessment</b>	No chemical safety assessment has been carried out.

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## SECTION 16: OTHER INFORMATION

<b>Reason for revision:</b>	Replaces version dated August 2013. MSDS re-formatted in-line with regulation 453/2010 all sections affected.
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H360FD May damage fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
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