

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006,
as amended by UK REACH Regulation SI 2019/758
FT ENHANCE R AUTUMN & WINTER 5-2-15+TE

Date of Issue: Feb 2004
Revision: 06/03/2024
Revision No. 1.2

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

- 1.1. Product identifier** **FT ENHANCE R AUTUMN & WINTER**
5-2-15+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**
GB/NI Vitax Limited, Owen Street, Coalville LE67 3DE
Tel: +44 (0)1530 510060 Email: info@vitax.co.uk
- 1.4. Emergency Contact:** For the general public, in GB contact NHS 111/NHS 24 by dialling 111, in NI contact your local GP
For product advice, Tel: +44 (0)1530 510060 (Office Hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

2.2. Label elements



Pictogram Warning
Signal word H319 Causes serious eye irritation.
Hazard statements H412 Harmful to aquatic life with long lasting effects.

P273 Avoid release to the environment.
Precautionary statements 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 mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical name	CAS no. / EC no.	Annex No or REACH Reg No	Classification Regulation (EC) No. 1272/2008	Specific Conc. Limit/ M-Factor/ ATE	% (w/w)
SSP Single Superphosphate	8011-76-5/ 232-379-5	-/ 01-2119488967-11	Eye Irrit. 1 - H318 *	-	10-15%
Iron (II) sulphate heptahydrate	7782-63-0/ 231-753-5	026-003-01-4/ 01-2119513203-57	Acute tox 4: H302 Eye irrit. 2: H319 Skin irrit 2: H315	Skin irrit. 2 H315: C _≥ 25%	3 - 5%
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 - 3%
Boric acid	10043-35-3/ 233-139-2	UK REACH No: 005-007-00-2	Repr. 1B - H360FD		<0.25%
Copper Sulphate pentahydrate	7758-99-8/ 231-847-6		Acute Tox. 4 - H302 Eye Dam.1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	M factor (Acute) = 10 M factor (Chronic) = 10	<0.1%



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* Unknown or variable composition, complex reaction products or of biological materials. Irritation of eyes is assumed. In-vitro testing conducted on products with Super Phosphate 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.

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	Remove victim immediately from source of exposure. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse the mouth with water. Do not induce vomiting. Get medical attention if symptoms are severe or persist.
Skin contact	Wash skin thoroughly with soap and water. 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.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Dust in high concentrations may irritate the respiratory system and result in breathing difficulties.
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	Causes severe eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire- Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media	Water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Fire will result in dense smoke. Exposure to combustion products may harm your health. Do not allow fire extinguishing water to enter the sewage system and nearby surface waters. If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced: Halogenated compounds, Sulphur oxides, Nitrogen oxides (NO _x), Carbon oxides (CO / CO ₂), Some metal oxides
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5.3. Advice for firefighters

Protective actions during firefighting	Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) for further advice.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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.
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6.2. Environmental precautions

Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses. the event of leakage to the surroundings, contact local environmental authorities.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.
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6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions

Avoid contact with skin and eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Prevent emissions to the waste-water system and surrounding environment. See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material:

Keep only in original packaging.

Storage temperature:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3 Specific end use(s)

See section 1.2

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

Identification	Occupational exposure limits		
Copper compounds (as Cu) CAS: 7758-99-8	WEL (8h)		1 mg/m ³
	WEL (15 min)		2 mg/m ³
Nuisance dusts	WEL (8h)	inhalable dust	10 mg/m ³
		respirable dust	4 mg/m ³

DNEL		
SSP Single Superphosphate (CAS: 8011-76-5)		
Dermal	Long term systemic effect	2.08 mg/kg bw/d (general population) 4.2 mg/kg bw/d (workforce)
By inhalation	Long term systemic effect	2.9 mg/m ³ (workforce)
Boric Acid		
Dermal	Long term systemic effect	196 mg/kg bw/d (general population) 392 mg/kg bw/d (workforce)
By inhalation	Long term systemic effect	4.15 mg/m ³ (general population) 8.3 mg/m ³ (workforce)
Oral	Long term systemic effect	980 µg/kg bw/d (general population) 980 µg/kg bw/d (workforce)

PNEC	
SSP Single Superphosphate (CAS: 8011-76-5)	
Sewage treatment plant	10 mg/l
Boric Acid	
Freshwater	2.9 mg/l
Intermittent release (freshwater)	13.7 mg/l
Marine water	2.9 mg/l
Sewage treatment plant	10 mg/l
Soil	5.7 mg/l

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be maintained.

General recommendations:

Do not eat, drink or smoke when using this product.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

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Appropriate technical measures:	Apply standard precautions during use of the product. Avoid inhalation of gas or dust. Ensure adequate ventilation. Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Ensure emergency eyewash is available.
Hygiene measures:	Wash hands, and exposed skin after use.
Measures to avoid environmental exposure:	Have damming materials available. Collect spillage.
Individual protection measures, such as personal protective equipment	
Generally:	Use only UKCA marked protective equipment.
Respiratory Equipment:	Respiratory protection is not needed in the event of adequate ventilation.
Skin protection:	Dedicated work clothing should be worn.
Hand protection:	No specific requirements
Eye protection:	Safety glasses with side shields. EN166

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Granulate
Colour:	Testing not relevant or not possible due to the nature of the product.
Odour / Odour threshold:	Testing not relevant or not possible due to the nature of the product.
pH:	Testing not relevant or not possible due to the nature of the product.
Density (g/cm ³):	Testing not relevant or not possible due to the nature of the product.
Kinematic viscosity:	Does not apply to solids.
Particle characteristics:	Testing not relevant or not possible due to the nature of the product.
Phase changes	
Melting point/Freezing point (°C):	Testing not relevant or not possible due to the nature of the product.
Softening point/range (waxes and pastes) (°C):	Does not apply to solids.
Boiling point (°C):	Does not apply to solids.
Vapour pressure:	Testing not relevant or not possible due to the nature of the product.
Relative vapour density:	Does not apply to solids.
Decomposition temperature (°C):	Testing not relevant or not possible due to the nature of the product.
Data on fire and explosion hazards	
Flash point (°C):	Does not apply to solids.
Flammability (°C):	Testing not relevant or not possible due to the nature of the product.
Auto-ignition temperature (°C):	Testing not relevant or not possible due to the nature of the product.
Lower and upper explosion limit (% v/v):	Does not apply to solids.
Solubility	
Solubility in water:	Testing not relevant or not possible due to the nature of the product.
n-octanol/water coefficient:	Testing not relevant or not possible due to the nature of the product.
Solubility in fat (g/L):	Testing not relevant or not possible due to the nature of the product.

9.2 Other Information

Oxidizing properties:	Testing not relevant or not possible due to the nature of the product.
Other physical and chemical parameters:	No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	No data available.
10.2 Chemical Stability	The product is stable under the conditions, in section 7 "Handling and storage".
10.3 Possibility of hazardous reactions	None known.
10.4 Conditions to avoid	None known.
10.5 Incompatible materials	Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.
10.6 Hazardous decomposition products	The product is not degraded when used as specified in section 1.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information on hazardous ingredients:

Superphosphate

Eye Dam. 1	Causes serious eye damage. 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
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Zinc sulphate monohydrate

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LD50 oral rat	2150 mg/kg
Product	
Acute toxicity – oral	
Notes (oral LD50)	Not classified (Based on available data, the classification criteria are not met).
Acute toxicity - dermal	
Notes (dermal LD50)	Not classified (Based on available data, the classification criteria are not met).
Acute toxicity - inhalation	
Notes (inhalation LC50)	Not classified (Based on available data, the classification criteria are not met).
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	Not classified (Based on available data, the classification criteria are not met).
Skin sensitisation	Not classified (Based on available data, the classification criteria are not met).
Germ cell mutagenicity	
Genotoxicity - in vitro	Not classified (Based on available data, the classification criteria are not met).
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met).
Reproductive toxicity	
Reproductive toxicity – fertility	Not classified (Based on available data, the classification criteria are not met).
Specific target organ toxicity - single exposure	
STOT - single exposure	Not classified (Based on available data, the classification criteria are not met).
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Not classified (Based on available data, the classification criteria are not met).
Aspiration hazard	Not classified (Based on available data, the classification criteria are not met).
11.2. Information on other hazards	
Long term effects	
Irritation effects:	This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.
Endocrine disrupting properties	This mixture/product does not contain any substances considered to have hormone-disrupting properties in relation to health.
Other information	None known.

SECTION 12: ECOLOGICAL INFORMATION

Copper sulphate pentahydrate	
LC50 Fish (Cyprinus carpio)	0.81 mg/L (96 h)
EC50 crustacea	Non-applicable
EC50 aquatic plants	Non-applicable
12.1. Toxicity	Harmful to aquatic life with long lasting effects.
12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	No data available.
12.4. Mobility in soil	Zinc sulphate monohydrate LogKoc = 12.4, Low mobility potential..
12.5. Results of PBT and vPvB assessment	This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
12.6. Endocrine disrupting properties	This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.
12.7. Other adverse effects	This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms. This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods	
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. Packaging contaminated with product should be disposed of similarly to product.

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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).
14.1. UN number	Not applicable.
14.2. UN proper shipping name	Not applicable.
14.3. Transport hazard class(es)	No transport warning sign required.
14.4. Packing group	Not applicable.
14.5. Environmental hazards	
Environmentally hazardous substance/ marine pollutant	No.
14.6. Special precautions for user	Not applicable.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

Substances listed in UK REACH Authorisation List (Annex 14): Not applicable

Substances listed in UK candidate list of substances of very high concern (SVHCs): boric acid

The Control of Major Accident Hazards Regulations 2015:

Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc):

Non-applicable

Control of Explosive Precursors and Poisons Regulations 2023 on the marketing and use of explosives precursors:

Non-applicable.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

15.2 Chemical Safety Assessment CSA not undertaken.

SECTION 16: OTHER INFORMATION

Reason for revision: Replaces version dated 13 May 2015. Revised according to REACH Regulation (EC) No 1907/2006 as amended by UK REACH Regulation 2019/758. All sections updated.

Hazard statements in full
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.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

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EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

General information:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020. The product label provides information on the use of the product: do not use otherwise, unless you have assessed any potential hazard involved and the safety measures required. Prepared by VITAX LTD, for Health and Safety purposes from the best knowledge available at the time of printing.