

1. IDENTIFICATION OF SUBSTANCE/MIXTURE AND COMPANY

1.1 Product identifier

Ultimax-S 8-2-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended uses Fertiliser. For professional use only.

Uses advised against Consumer use

1.3 Details of the supplier of the safety data sheet

Aitkens Sportsturf Ltd, Aviation Road, Sherburn In Elmet, North Yorkshire LS25 6NB

Richard Aitken (Seedsman) Ltd, 20 Robert Drive, Glasgow G513HE

Email: enquiries@aitkens.co.uk

1.4 Emergency telephone number

Tel: 01977681155 or 01414400033

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Mixture

Regulation (EC) No. 1272/2008: Skin corrosion or irritation – Category 3 (H316)

2.2 Label elements

Pictogram(s) None

Signal word: WARNING

Hazard statements: H316: Causes mild skin irritation

Precautionary statements: P332+P313: IF skin irritation occurs. Get medical advice/attention.

Other hazards: None

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients	EC-No	CAS number	REACH registration	Classification according to Regulation (EC). 1272/2008 (CLP)	Weight %
Iron sulphate FeSO ₄ .7H ₂ O	231-753-5	7782-63-0	01-2119513203-57	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	<10%

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice Show this SDS to the doctor in attendance. First responder needs to protect themselves.

Inhalation Remove to fresh air and seek medical aid.

Skin Contact: Wash with water. Remove and wash contaminated clothing.

Eye Contact: Irrigate with water thoroughly and seek medical advice.

Ingestion: Rinse out mouth with plenty of water and seek medical aid immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms None under normal processing

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Use water, water spray, dry powder, foam or carbon dioxide.

Unsuitable extinguishing media High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: May produce fumes if heated.

5.3 Advice for fire fighters

Coordinate fire extinguishing measures to fire in surrounding area.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Ensure adequate ventilation. Wear personal protective equipment.

Evacuate personnel to safe areas.

For emergency responders

Use personal protection recommended in section 8.

6.2 Environmental precautions

Prevent material or washings entering water courses

6.3 Methods and material for containment and cleaning up

Methods for containment

Sweep up spills carefully to minimise dust/spread of material.

Methods for clean-up

Transfer to heavy-duty plastic bags or drums and keep safe for disposal. If material is uncontaminated reuse as recommended for product.

6.4 Reference to other sections

Section 8 and 13

7. HANDLING & STORAGE

7.1 Precautions for safe handling

General occupational hygiene advice

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions

Store in original containers, tightly closed in a secure, well ventilated area.

Packaging materials:

20 kg polythene bags

Other advice

For quality reasons store under dry conditions, out of direct sunlight, do not double stack pallets of product. Shelf life 2 years. Partly used bags should be closed well.

7.3 Specific end use(s)

Specific uses

Fertiliser. Follow label instructions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Iron Sulphate $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	
Belgium – 8 Hr TWA	1mg/m ³
Denmark	TWA: 1mg/m ³
Finland	TWA: 1mg/m ³
Ireland	TWA: 1mg/m ³ STEL: 2mg/m ³
Norway	TWA: 1mg/m ³ STEL: 2mg/m ³
Portugal	TWA: 1mg/m ³
Spain OEL – TWA	TWA: 1mg/m ³
Switzerland	TWA: 1mg/m ³
UK oes/mel	TWA: 1mg/m ³

8.2 Exposure controls

Personal protective equipment

Eye / face protection:

Not required

Skin and body protection:

Suitable work wear

Respiratory protection:

Not required unless working in a confined space. If exposure is likely to exceed OEL concentrations, use a combination particle/vapour filter mask (minimum 10 times OEL)

Hand protection:	Protective gloves recommended
Work / Hygienic practices:	Wash hands before eating, drinking or smoking.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Homogenous granule, brown
Odour:	Light odour
pH:	6.5 – 7.2
Melting point/freezing point	No data available
Boiling point/range	No data available
Flash point:	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas):	Non-flammable
Vapour pressure:	Not applicable
Vapour density	Not applicable
Specific gravity:	760g/l
Water solubility:	Slightly soluble
Solubility(ies)	No data available
Partition coefficient	Not applicable
Autoignition temperature	Not applicable
Decomposition temperature	No data available
Explosive properties	Does not present explosion hazard (based on data of ingredients)
Oxidising properties:	No data available

9.2 Other information

Not applicable

10. STABILITY & REACTIVITY

10.1 Reactivity

Not reactive.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Extremes of temperature

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

None under normal processing

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

In case of ingestion:	May cause nausea or irritation to digestive system.
In case of skin contact:	Causes mild skin irritation.
In case of inhalation:	May cause irritation of the respiratory tract.
In case of eye contact:	May cause irritation to the eyes

Symptoms related to the physical, chemical and toxicological characteristics:

No information available

Acute toxicity

ATEmix (oral) = 7,142mg/kg (calculated)

0% of the mixture contains ingredient(s) of unknown toxicity

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Iron (II) sulphate (1:1) Heptahydrate	1096 mg/kg (rat)	>2000 mg/kg (rat)	No relevant data available

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

Skin corrosion/irritation	No information available
Serious eye damage/eye irritation	No information available
Respiratory or skin sensitisation	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	No information available
Reproductive toxicity	No information available
STOT-single exposure	No information available
STOT-repeated exposure	No information available
Aspiration hazard	No information available

Absence of specific data

No test data is available for the mixture as a whole. Data on ingredient substances has been provided where relevant.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity: Do not allow product to enter the environment uncontrolled.

Ingredients	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Iron (II) sulphate (1:1) Heptahydrate	Data are experimentally inaccessible	Data are experimentally inaccessible	Data are experimentally inaccessible	Data are experimentally inaccessible

12.2 Persistence and degradability

Unlikely to accumulate in the environment (based on ingredient properties)

12.3 Bio accumulative potential

Low potential (based on ingredient properties)

12.4 Mobility in soil

Low potential for adsorption (based on ingredient properties)

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / packaging disposal: Dispose of waste and packaging through a waste disposal contractor in accordance with local laws.

14. TRANSPORT INFORMATION

14.1 UN-No:	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Hazard group	Not regulated
14.5 Packing group	Not regulated
14.6 Marine pollutant	Not regulated
14.7 Environmental hazards	Not regulated
14.8 Special provisions for user	None

15. REGULATORY INFORMATION

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

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture.

16. OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: EU-GHS; Classification, Labelling and Packaging

EC No: European Community number

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

OEL: Occupational Exposure Limit

STEL: Short-term exposure limit

TWA: Time Weighted Average

Key literature references

EC Regulation 1907/2006 (Reach), Regulation EU No. 2015/830, Regulation (EC) No 1272/2008.

Classification procedure

- Calculation method

- Expert judgment and weight of evidence determination

Issue date

22 Feb 2018

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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