

Lawn Sand 3-0-0+7% Fe

Issue Date: 12-Jan-16

Revision Date: 19-Jan-16

Revision Number: 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1 Name of Product

Lawn Sand 3-0-0+7% Fe

1.2 Use of the Substance/Preparation

Fertiliser

1.3 Manufacturer/Distributor

Thomas Elliott (Fertilisers)
Selby Place
Stanley Industrial Estate
Skelmersdale
WN8 8EF
Tel: 01695 51875
Email: info@thomas-elliott.co.uk

1.4 Emergency Contact

Tel: 01695 51875 (Office Hours)

2. HAZARDS IDENTIFICATION

2.1 Classification

Classification according to Directive EC 1272/2008 Classification, Labelling and Packaging.

Physical hazards

Not Classified

Health hazards

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Environmental hazards

Not Classified

2.2 Label elements

Pictogram



Signal Word

Warning

Hazard statements

H315 Causes skin irritation

H319 Causes serious eye irritation

Precautionary statements

P264 Wash contaminated skin thoroughly after handling.

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.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P362 Take off contaminated clothing and wash before reuse.

2.3 Other hazards

This product contains less than 1% quartz (respirable). Depending on the type of handling and use (e.g.grinding, drying), airborne respirable crystalline silica (quartz cristobalite) may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled. This product should be handled with care to avoid dust generation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Compound mineral fertiliser containing 3% Nitrogen and 7% Iron

Ingredient	CAS/EINECS	Classification	% w/w
Ferrous Sulphate Monohydrate	17375-41-6	H302: Acute Tox. 4	23.5
	231-753-5	H315: Skin Irrit. 2	
		H319: Eye Irrit. 2	

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye contact – Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin contact – Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.

Ingestion – wash out mouth with water and seek medical advice.

Inhalation – remove to fresh air.

4.2 Most important symptoms and effects, both acute and delayed

Skin Contact: Repeated and/or prolonged contact may cause irritation.

Eye Contact: Dusty/gritty material expected to cause irritation to eyes.

Ingestion: May cause irritation of gastro intestinal tract leading to nausea, vomiting, abdominal pain and diarrhoea.

Inhalation: High concentration of dust may be irritating to trachea and lungs.

4.3 Indication of immediate medical attention and special treatment needed:

None

Additional medical guidance is available to doctors from the National Poisons Information Service.

5. FIRE FIGHTING MEASURES

Non flammable

5.1 Extinguishing Media:

If involved in a fire use water spray, CO₂ or dry powder.

5.2 Special hazards arising from substance or mixture:

In intense heat, product decomposition will release toxic nitrogen and sulphur oxide fumes.

5.3 Advice for firefighters:

Wear self-contained breathing apparatus in confined spaces. Contain contaminated run-off.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:

Ensure adequate ventilation. Wear protective gloves and eye protection. Wash hands and exposed skin after handling.

6.2 Environmental precautions:

Do not allow to enter drains or sewers.

6.3 Methods and material for containment and cleaning up:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling:

Ensure good ventilation at workplace. Ensure good hygiene practices are observed. Do not eat, drink or smoke when handling this product. Do not breathe dust. Avoid contact with skin and eyes. Ensure workplace exposure limits are observed. Do not block stack pallets.

7.2 Conditions for Safe Storage:

Store in original containers, tightly closed in a secure, well ventilated, cool but frost-free, dry area. Store clear of foodstuffs and in a separate stack from herbicides.

7.3 Specific end use:

Fertiliser.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters:

Occupational Exposure Limits

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust). Nuisance dust: Inhalable dust 10 mg/m³, Respirable dust 4 mg/m³

Ammonium Sulphate, Long-term Exposure Limit (LTEL)

Long-term Exposure Limit (8 hour TWA) 10 mg/m³

Sand (Silica Dust respirable), Long-term Exposure Limit (LTEL)

Long-term Exposure Limit (8 hour TWA) WEL 0.1 mg/m³

Ferrous Sulphate Heptahydrate (CAS 7782-63-0), Desired No Effect Level (DNEL)

Worker

Acute systemic effects dermal:	2.8 mg/kg/day
Acute systemic effects inhalative:	9.9 mg/m ³
Systemic long-term effects dermal:	2.8 mg/kg/day
Systemic long-term effects inhalative:	9.9 mg/m ³

General Population

Acute systemic effects oral:	1.4 mg/kg/day
Acute systemic effects dermal:	1.4 mg/kg/day
Acute systemic effects inhalative:	2.5 mg/m ³
Systemic long-term effects oral:	1.4 mg/kg/day
Systemic long-term effects dermal:	1.4 mg/kg/day
Systemic long-term effects inhalative:	2.5 mg/m ³

Ferrous Sulphate Heptahydrate (CAS 7782-63-0), Predicted No Effect Concentration (PNEC)

The PNECs given in this section were derived based on the concentration which would cause a 10% increase above typical natural background levels of iron in soil and sediment. Thus the respective PNEC is equal to 110% of the typical natural background level of iron.

Water

Iron is an essential trace element for fish, aquatic invertebrates and plants. A direct toxicity could not be demonstrated in tests. Therefore no PNEC was derived.

Sewage Treatment Plants, Sediment and Soil

STP	500 mg/L
Sediment (Fresh Water)	49.5 g/kg
Sediment (Marine Water)	49.5 g/kg
Soil	55.5 g/kg

Oral (food chain)

Iron is an essential trace element for fish, aquatic invertebrates and plants. A direct toxicity could not be demonstrated in tests, therefore no PNEC was derived.

8.2 Exposure Controls:

Protective equipment



Gloves: wear protective gloves.

Eye/face protection: tightly sealed safety glasses.

Engineering controls: all handling should only take place in well-ventilated areas.

Clothing: 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

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	Grey/brown microgranule
Odour	Slight metallic
pH	n/a
Boiling point	Decomposes above 200-250°C
Melting point	n/a
Flash point	n/a
Flammability	n/a
Autoflammability	n/a
Explosivity	n/a
Oxidising properties	n/a
Vapour Pressure	n/a
Relative density	1.41
Solubility	Contains >50% insoluble material

9.2 Other Information:

None

10. STABILITY & REACTIVITY

10.1 Reactivity:

no data

10.2 Stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Reacts with strong alkalis to release ammonia

10.4 Conditions to Avoid:

Store away from heat

10.5 Incompatible materials:

Strong oxidising agents

10.6 Hazardous Decomposition Products:

Decomposes at high temperatures producing toxic nitrogen and sulphur oxide fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Not classified as harmful by inhalation, ingestion or in contact with skin. Ingestion of large quantities may cause gastric disturbance.

Acute toxicity, data for Ferrous Sulphate Heptahydrate (7720-78-7)

LD/LC50 values that are relevant for classification:

Oral LD50 1,389 mg/kg (rat)

Primary irritant effect for Ferrous Sulphate Heptahydrate (7720-78-7)

On the skin OECD 404 Irritant for skin and mucous membranes

On the eye OECD 405 Irritant effect

Sensitization OECD 429 (LLNA-test) No sensitizing effects

Subacute to chronic toxicity

Data of the Key Studies for iron sulphates and iron chlorides:

Oral NOAEL 57-65 mg Fe/kg/day (rat, 90 days) (not according to OECD)

Dermal NOAEL no relevant data available

Inhalative NOAEC no relevant data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

There are no indications of CMR effects.

Specific target organ toxicity (STOT)

No specific target organ toxicity according to the criteria defined in Regulation (EC) No. 1272/2008.

Aspiration hazard

No data, not an aspiration hazard.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

not classified as hazardous. Provides nutrients essential to plant growth.

12.2 Persistence and degradability:

no data

12.3 Bioaccumulative potential:

no data

12.4 Mobility in soil:

no data.

12.5 Results of PBT and vPvB:

not classified.

12.6 Other adverse data:

no data

13. DISPOSAL CONSIDERATIONS

Disposal route should not permit contamination of groundwater.

13.1 Waste treatment methods:

Dispose of waste through a reputable waste disposal contractor in accordance with the Environmental Protection Act 1990.

14. TRANSPORT INFORMATION

14.1 UN-Number

ADR, IMDG, IATA Not applicable

14.2 UN proper shipping name

ADR, IMDG, IATA Not applicable

14.3 Transport hazard class(es)

ADR, IMDG, IATA Not applicable

14.4 Packaging Group

ADR, IMDG, IATA Not applicable

14.5 Environmental hazards

Not a marine pollutant

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific to this substance:

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

not undertaken for this material

16. OTHER INFORMATION

Text of the hazard statements mentioned in Section 3:

Acute Toxicity 4, H302: Harmful if swallowed

Skin Irritant 2, H314: Causes skin irritation

Eye Irritant 2, H319 : Causes serious eye irritation

Reason for revision: MSDS re-formatted in-line with regulation 453/2010 all sections affected.

Liability 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 Thomas Elliott (Fertilisers), for Health and Safety purposes from the best knowledge available at the time of printing.