

# Microbial 8-0-0+1Fe

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

### 1.1 Name of Product

Microbial 8-0-0+1Fe

### 1.2 Use of the Substance/Preparation

Product category: Fertiliser (PC12)

Mixture

### 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.

This mixture is not classified as dangerous to humans or the environment.

### 2.2 Label elements

There are no statutory labelling requirements under regulation 1272/2008 and regulation 453/2012.

### 2.3 Other hazards

Mixture not classed as PBT or vPvB.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Compound fertiliser containing 8% nitrogen, 1% iron, Category 3 animal by-products and silica sand.

Ingredient	CAS/EINECS	Classification	% w/w
Ferrous Sulphate	7720-78-7/ 231-753-5	Acute tox 4 H302 Skin irr 2 H315 Eye irr 2 H319	1-5%

## 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures

**Eye contact** – Immediately rinse with clean water for 15 minutes. Seek medical attention if symptoms persist or develop.

**Skin contact** – Wash exposed areas of skin with soap and water following use. Wash all contaminated clothing before re-use.

**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

**Eye Contact:** Pain and redness

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

**Ingestion:** Based on components, product is considered to present little hazard by oral exposure.

**Inhalation:** Unlikely to cause harmful effects under normal handling and use.

#### 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

#### 5.1 Extinguishing Media

Use foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable. As such extinguishing media appropriate for surrounding materials should be chosen.

#### 5.2 Special hazards arising from substance or mixture

Possible irritant fumes arising from product decomposition.

#### 5.3 Advice for firefighters

Contain spread of extinguishing fluids. Wear self-contained breathing apparatus in confined spaces.

### 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 use other means and place in container for reuse (preferred) or disposal.

#### 6.4 Reference to Other Sections

See section 7 for information on safe handling.

See section 13 for disposal information.

### 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

Product Category: PC12 (Fertiliser)

### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

#### 8.1 Control parameters

##### **Occupational exposure limits**

Product contains silica sand.

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust, respirable crystalline silica dust). The OEL (Occupational Exposure Limit) for respirable crystalline silica dust is 0.1mg/m<sup>3</sup> in the United Kingdom, measured as an 8 hour TWA (Time Weighted Average). Nuisance dust: Inhalable dust 10 mg/m<sup>3</sup>; Respirable dust 4 mg/m<sup>3</sup>

<b>Components</b>	<b>Long-term exposure limit (8-hour TWA)</b>
Ferrous Sulphate (7720-78-7)	WEL 1 mg/m <sup>3</sup>
	<b>Short-term exposure limit (15-minute)</b>
Ferrous Sulphate (7720-78-7)	WEL 2 mg/m <sup>3</sup>

**Ferrous Sulphate**

DNEL Industry	Long term systemic effects, dermal: 7.6 mg/kg/d
General Population	Long term systemic effects, dermal: 3.8 mg/kg/d
	Long term systemic effects, oral: 0.76 mg/kg/d
	Short term systemic effects, oral: 54.4 mg/kg/d

**8.2 Exposure Controls:**

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified. Primary Hazard considered as handling of concentrate. Gloves: to BS EN374 of gauntlet type in Natural Rubber or PVC (not Nitrile) recommended for acid resistance. Clothing: Coveralls/apron to BS EN465/466/4679.

**9. PHYSICAL & CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

Appearance	Buff, black and brown powder
Odour	Organic
pH	n/a
Boiling point	n/a
Melting point	n/a
Flash point	n/a
Flammability	Not flammable
Autoflammability	n/a
Explosivity	Not explosive
Oxidising properties	none
Vapour Pressure	n/a
Relative density	n/a
Solubility	Partially soluble in water
Decomposition temperature	n/a

**9.2 Other Information:**

None

**10. STABILITY & REACTIVITY**

**10.1 Reactivity**

Stable under normal conditions of storage and use

**10.2 Stability**

Stable under normal conditions

**10.3 Possibility of hazardous reactions**

Information not available

**10.4 Conditions to Avoid**

Extremes of temperature

**10.5 Incompatible materials**

None known

## 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

The mixture has not been assessed for toxicological effects, the mixture classification is given in section 2 based on individual component contents. Individual component hazards are given in section 3.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

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

### 12.2 Persistence and degradability

The organic portion of the product is biodegradable.

### 12.3 Bioaccumulative potential

Product is not expected to bioaccumulate.

### 12.4 Mobility in soil

No further relevant information available.

### 12.5 Results of PBT and vPvB

Not classified

### 12.6 Other adverse data

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13. DISPOSAL CONSIDERATIONS

Disposal route should not permit contamination of groundwater.

### 13.1 Waste treatment methods

Employ hierarchy of waste control principles.

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

Contact waste disposal contractor for recycling information.

Do not allow product to reach sewage system.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

Contaminated packaging:

Bags may contain residues that can develop hazardous gases and vapours upon heating. Bag maybe washed with water if necessary.

## 14. TRANSPORT INFORMATION

### 14.1 UN-Number

ADR, IMDG, IATA	Not applicable
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### 14.2 UN proper shipping name

ADR, IMDG, IATA	Not applicable
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### 14.3 Transport hazard class(es)

ADR, IMDG, IATA	Not applicable
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### 14.4 Packaging Group

ADR, IMDG, IATA	Not applicable
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#### 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

#### **Abbreviations and Acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

#### **Hazard statements in full**

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

#### **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.