



# Advance Grass Solutions Ltd

## Material Safety Data Sheet

4-0-4+9Fe

### SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product Identifier

Product Name 4-0-4+9Fe  
REACH Registration notes Exempt from REACH registration according to Regulation (EC) No. 1907/2006 (REACH)

#### 1.2 Relevant identified uses of the Substance or Mixture and uses advised against

Identified uses Fertiliser

#### 1.3 Details of the Supplier of the Safety Data Sheet

#### 1.4

Advance Grass Solutions Ltd, Unit 6 Norcot Industrial Estate,  
Sterling Way, Tilehurst, Reading, Berkshire RG30 6HW  
+44 (0) 1183 914540  
[info@advancegrass.com](mailto:info@advancegrass.com)

#### **1.4 Emergency Telephone Number:**

+44 (0) 118 3914540 – Normal hours are 07:30-16:30 Mon-Fri.  
+44 (0) 7789 935208 – Out of normal hours only.

### SECTION 2 Hazards Identification

#### 2.1 Classification of the substance or mixture

##### Classification

Physical hazards	Not Classified	
Health hazards	Acute Tox. 4 -	H302
	Skin Irrit. 2 -	H315
	Eye Irrit. 2 -	H319
Environmental hazards	Not classified	

#### 2.2 Label Elements



Signal Word

Warning

#### **Hazard statements**

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.



### Precautionary statements

P264	Wash contaminated skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	ID SWALLOWED: immediately call a POISON CENTRE/Doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see medical advice on this label).
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/containers in accordance with national regulations.

**Contains:** Ferrous Sulphate 18%

### 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 Mixture

#### **Ferrous Sulphate 18%**

**30-60%**

**CAS number:** 7720-78-7

**EC number:** 231-753-5

**REACH registration number:** 01-2119513203-57-XXXX

#### **Classification**

**Classification (67/548/EEC or 1999/45/EC)**

Acute Tox. 4 – H302

Xn; R22; Xi; R36/38

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

#### **SSP Single Superphosphate**

**10-30%**

**CAS number** 8011-76-5

**EC number:** 232-379-5

**REACH registration number:** 01-2119488967-11-XXXX

#### **Classification**

**Classification (67/548/EEC or 1999/45/EC)**

Eye Irrit. 2 –H319

Xi; R41

The Full Text for all R-Phrases and 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. No special treatment required.
Ingestion	Rinse mouth thoroughly with water. Get medical attention if symptoms are severe or persist.
Skin contact	Wash Skin thoroughly with soap and water or use an approved skin cleanser. Get medical attention if symptoms are severe or persist.
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.
Ingestion	No harmful effects expected from quantities likely to be ingested by accident.
Skin contact	May cause skin irritation. Prolonged Skin contact may cause temporary irritation. Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Prolonged or repeated exposure may cause severe irritation. May cause serious eye damage.

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

Notes for the doctor	Treat symptomatically.
----------------------	------------------------

### **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.
Unsuitable extinguishing media	Not applicable.

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

Specific hazards	None known.
------------------	-------------

#### 5.3 Advice for firefighters

Protective actions during Firefighting	No specific firefighting precautions known.
--	---

Special protective equipment For firefighters	Use protective equipment appropriate for surrounding materials.
---	---

### **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.
----------------------	---

#### 6.2 Environmental procedures

Environmental precautions	The product is slowly degradable. The product is not expected to be hazardous to the environment. Avoid spillage or runoff entering drains, sewers or watercourses.
---------------------------	---

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	Take care as floors and other surfaces may become slippery. Collect and dispose of spillage as indicated in Section 13.
-------------------------	---

#### 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	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.

7.2 Condition for safe storage, including any incompatibilities

Storage precautions                      Store in a dry place.

7.3 Specific end uses(s)

Specific end use(s)                      The identified uses for this product are detailed in Section 1.2.

**SECTION 8 Exposure Control/Personal Protection**

**8.1 Control parameters**

**Occupational Exposure Limits**

Ferrous Sulphate 18%	Long-term exposure limit (8-hour TWA): WEL 1mg/m <sup>3</sup> Short-term exposure limit (15-minute): 2mg/m <sup>3</sup>
Sand (L)	Long-term exposure limit (8-hour TWA): Silica Dust; WEL 0.1mg/m <sup>3</sup>
Ammonium Sulphate	Long-term exposure limit (8-hour TWA): LTEL 10mg/m <sup>3</sup>

WEL = Workplace Exposure Limit

**SSP Single Superphosphate (CAS: 8011-76-5)**

DNEL	Workers – Inhalation; Long term systemic effects: 3.1mg/m <sup>3</sup> Workers – Dermal; Long term systemic effects: 17.4mg/kg/day General population – Inhalation; Long Term systemic effects: 0.9mg/m <sup>3</sup> General population – Oral; Long term systemic effects: 2.1mg/kg/day General population – Dermal; Long term systemic effects: 10.4mg/kg/day
PNEC	Fresh water; 1.7mg/l Marine water; 0.17mg/l Intermittent release; 17mg/l STP; 10mg/l

**Potash (CAS: 7447-40-7)**

DNEL	Workers – Dermal; short term systemic effects: 580mg/kg/day Workers – Dermal; Long term systemic effects: 580mg/kg/day Workers – Inhalation; short term systemic effects: 292mg/m <sup>3</sup> Workers - Inhalation; Long term systemic effects: 292mg/m <sup>3</sup>
PNEC	Industry -Fresh water; 0.047mg/l Marine water; 0.047mg/l



## **8.2 Exposure Controls**

### **Protective Equipment**



### **Appropriate Engineering Controls**

#### **Eye/Face Protection**

#### **Hand Protection**

#### **Other Skin and Body Protection**

#### **Hygiene Measures**

#### **Respiratory Protection**

All handling should only take place in well ventilated areas.

Wear eye protection.

Wear protective gloves.

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

No specific recommendations.

## **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
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

### **9.2 Other Information**

Other information	No information required
-------------------	-------------------------

## **SECTION 10 Stability and Reactivity**

### **10.1 Reactivity**

Reactivity	No test data specifically related to reactivity available for this product or its ingredients.
------------	--

### **10.2 Chemical Stability**

Stability	Stable when stored in a dry place.
-----------	------------------------------------



### 10.3 Possibility of Hazardous Reactions

Possibility of hazardous Reactions      No potentially hazardous reactions known

### 10.4 Conditions to avoid

Conditions to avoid      There are no known conditions that are likely to result in a hazardous situation.

### 10.5 Incompatible Materials

Materials to avoid      None known

### 10.6 Hazardous Decomposition Products

Hazardous Decomposition Products      None known

## **SECTION 11 Toxicological Information**

### 11.1 Information on toxicological effects

#### Acute toxicity – oral

ATE oral (mg/kg)      1,033.70058328

#### 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 from Eye Damage.

#### 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      Does not contain any substances known to be toxic to reproduction.

#### Specific target organ toxicity

STOT – single exposure      Not classified as a specific target organ toxicant after a single exposure.

#### Specific target organ toxicity

STOT – repeated exposure      Not classified as a specific target organ toxicant after a single exposure.

#### Aspiration Hazard

Not anticipated to present an aspiration hazard, based on chemical structure.



<u>Ingestion</u>	May be harmful if swallowed.
<u>Skin contact</u>	May cause irritation.
<u>Eye Contact</u>	The product is considered to be a low hazard under normal conditions of use. May cause eye irritation.

## **SECTION 12 Ecological Information**

Ecotoxicity	The product is not expected to be toxic to aquatic organisms.
-------------	---

### **12.1 Toxicity**

### **12.2 Persistence and Degradability**

Persistence and Degradability	The product is slowly degradable
-------------------------------	----------------------------------

### **12.3 Bioaccumulative Potential**

Partition coefficient	Not known
-----------------------	-----------

### **12.4 Mobility in Soil**

Mobility	No data available
----------	-------------------

### **12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB Assessment	This product does not contain any substances classified as PBT or vPvB
------------------------------------	--

### **12.6 Other adverse effects**

Other adverse effects	Not relevant
-----------------------	--------------

## **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. No specific disposal method required.
------------------	--

## **SECTION 14 Transport Information**

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)
---------	---

<u>14.1 UN Number</u>	Not Applicable
-----------------------	----------------

<u>14.2 UN proper Shipping Name</u>	Not Applicable
-------------------------------------	----------------

<u>14.3 Transport Hazard Class(es)</u>	No transport warning sign required
--	------------------------------------

<u>14.4 Packing Group</u>	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

Transport in bulk according to Annex II of MARPOL 73/78 and IBC code      Not Applicable

### **SECTION 15 Regulatory Information**

#### 15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

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).

#### 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

### **SECTION 16 Other Information**

Revision comments      NOTE: Lines within the margin indicate significant changes from the previous revision.

SDS Number      4886

Hazard statements in full      H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes Serious eye irritation.

#### DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.