



## Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name/designation Ammonium iron (III) sulphate  
Product No. PRD5412  
Substance name Ammonium iron (III) sulphate dodecahydrate  
CAS No. 7783-83-7  
INDEX no.  
REACH registration No. Not yet communicated down the supply chain.  
other means of identification Ammonium ferric sulphate dodecahydrate

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

Relevant identified uses for laboratory use and chemical production.

#### 1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

: Better Equipped,  
Wrenbury Business Park,  
Wrenbury Road,  
Wrenbury,  
Nantwich, Cheshire,  
CW5 8EB, UK  
Telephone +44 (0) 800 9707142  
Fax +44 (0) 800 066 4443  
E-mail address [sales@betterequipped.co.uk](mailto:sales@betterequipped.co.uk)

#### 1.4 Emergency telephone

Telephone +44 (0)1270 781238

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### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

##### 2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

hazard classes and hazard categories	Hazard Statements	classification procedure	remark
Eye irritation, category 2	H319		

Skin irritation, category 2	H315		
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### 2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols:	R-phrases
Xi	R36/38

### 2.2 Label elements

#### 2.2.1 Labelling according to Regulation (EC) No. 1272/2008 [CLP]



Signal word: Warning

#### Hazard Statements

H319	Causes serious eye irritation.
H315	Causes skin irritation.

#### Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and 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.

#### 2.2.2 Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols:

Xi

#### R-phrases

R36/38	Irritating to eyes and skin.
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#### S-phrases

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37	Wear suitable protective clothing and gloves.

### 2.3 Other hazards

SVHC: No

### 3. Composition/ Information on ingredients

Molecular formula: H4FeNO8S2.12H2O

Molecular weight (g/mol)	482.2 g/mol
CAS No.	7783-83-7
EC No	233-382-4
INDEX no.	

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#### 4. First-aid measures

##### 4.1 General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

##### 4.2 After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

##### 4.3 In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

##### 4.4 After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

##### 4.5 After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting. Give nothing to eat or drink.

##### 4.6 Self-protection of the first aider

First aider: Pay attention to self-protection!

##### 4.7 Information to physician:

Symptoms	No data available
Hazards	No data available
Treatment	No data available

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#### 5. Firefighting measures

##### 5.1 Suitable extinguishing media

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

## 5.2 Extinguishing media which must not be used for safety reasons:

no restriction

## 5.3 Special hazards arising from the substance or mixture

In case of fire may be liberated: Hydrogen fluoride Nitrogen oxides (NOx) Sulphur oxides

## 5.4 Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

## 5.5 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

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## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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

Spilled product must never be returned to the original container for recycling. Take up carefully when dry. Clean contaminated objects and areas thoroughly observing environmental regulations. Collect in closed and suitable containers for disposal.

### 6.4 Additional information

Clear spills immediately.

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## 7. Handling and storage

### 7.1 Precautions for safe handling

All work processes must always be designed so that the following is as low as possible: Inhalation. skin contact eye contact. May cause decomposition by long-term light influence.

### 7.2 Conditions for safe storage, including any incompatibilities

storage temperature

15-25°C

Keep container tightly closed in a cool, well-ventilated place. Store product under (gas): Nitrogen Do not allow contact with air.

### 7.3 Specific end use(s)

No data available

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## 8. Exposure controls / Personal protection

### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

### 8.3 Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

#### 8.3.1 Eye / face protection

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

#### 8.3.2 Skin protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

##### By short-term hand contact

Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material	0,12 mm
Breakthrough time (maximum wearing time)	>480 min
Recommended glove articles	VWR 112-0998

##### By long-term hand contact

Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material	0,38 mm
Breakthrough time (maximum wearing time)	>480 min
Recommended glove articles	VWR 112-3717 / 112-1381

#### 8.3.3 Protective clothing

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

#### 8.3.4 Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Suitable respiratory protection apparatus:	Filtering Half-face mask (DIN EN 149)
Recommendation	VWR 111-0451
Suitable material:	P3
Recommendation	No data available

#### 8.4 Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

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### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

(a) Appearance	
Physical state	solid
Colour	light violet
(b) Odour	No data available
(c) Odour threshold	No data available

#### **Safety relevant basic data**

(d) pH	No data available
(e) Melting point/freezing point	39 to 41 °C
(f) Initial boiling point and boiling range	230°C (1013 hPa)
(g) Flash point	No data available
(h) Evaporation rate	No data available
(i) Flammability (solid, gas)	not applicable
(j) Upper/lower flammability or explosive limits	
Lower explosion limit (Vol-%)	No data available
Upper explosion limit (Vol-%)	No data available
(k) Vapour pressure	No data available
(l) Vapour density	No data available
(m) Relative density	1.71 g/cm <sup>3</sup> (20°C)
(n) Solubility(ies)	
Water solubility (g/l)	soluble
at °C:	20
Soluble (g/l) in	No data available
(o) Partition coefficient: n-octanol/water	No data available
(p) Auto-ignition temperature	No data available
(q) Decomposition temperature	No data available
(r) Viscosity	
Kinematic viscosity	No data available
Dynamic viscosity	No data available
(s) Explosive properties	not applicable
(t) Oxidising properties	not applicable

#### 9.2 Other information

Bulk density	No data available
refraction index	No data available
dissociation constant	No data available
Surface tension	No data available

Henry constant

No data available

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10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

10.7 Additional information

No data available

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11. Toxicological information

11.1 Information on toxicological effects

**Acute effects**

Acute oral toxicity

Effective dose

No data available

species:

No data available

Exposure time

remark

source

Acute dermal toxicity

Effective dose

No data available

species:

No data available

Exposure time

remark  
source

Acute inhalation toxicity

Effective dose

No data available

species:

No data available

Exposure time

remark

source

### **Irritant and corrosive effects**

Primary irritation to the skin

Exposure time

species:

Result

Irritation to eyes

Exposure time

species:

Result

Irritation to respiratory tract

Exposure time

species:

Result

### **Sensitisation**

In case of skin contact

not sensitising.

After inhalation

not sensitising.

### **Specific target organ toxicity (single exposure)**

not relevant

### **Specific target organ toxicity (repeated exposure)**

not relevant

### **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

#### **Carcinogenicity**

No indication of human carcinogenicity.

#### **Germ cell mutagenicity/Genotoxicity**

No indications of human germ cell mutagenicity exist.



## Reproductive toxicity

No indications of human reproductive toxicity exist.

## Aspiration hazard

not relevant

### 11.2 Other adverse effects

No data available

### 11.3 Additional information

No data available

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## 12. Ecological information

### 12.1 Ecotoxicity

#### Acute (short-term) fish toxicity

LC50: No data available

EC50

species:

Exposure time

#### Chronic (long-term) fish toxicity

LC50: No data available

EC50

species:

Exposure time

#### Acute (short-term) daphnia toxicity

LC50: No data available

EC50

species:

Exposure time

#### Chronic (long-term) daphnia toxicity

LC50: No data available

EC50

species:

Exposure time

#### Acute (short-term) algae toxicity

LC50: No data available

EC50

species:

Exposure time

#### Chronic (long-term) algae toxicity

LC50: No data available

EC50

species:

Exposure time

## 12.2 Persistence and degradability

No data available

## 12.3 Bioaccumulative potential

(o) Partition coefficient: n-octanol/water

No data available

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT assessment

No data available

## 12.6 Other adverse effects

No data available

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## 13. Disposal considerations

### 13.1 Waste treatment methods

#### **Appropriate disposal / Product**

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product

No data available

#### **Appropriate disposal / Package**

### 13.2 Additional information

No data available

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## 14. Transport information

### 14.1 Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

### 14.2 Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

#### 14.3 Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

#### 14.4 Additional information

No data available

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#### 15. Regulatory information

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

Water hazard class (WGK) 1

##### 15.2 Chemical Safety Assessment

No data available

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#### 16. Other information

##### 16.1 Relevant R-, H- and EUH-phrases (Number and full text)

R36/38	Irritating to eyes and skin.
H319	Causes serious eye irritation.
H315	Causes skin irritation.

##### 16.2 Additional information

Indication of changes

general update

*The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.*