



# SAFETY DATA SHEET

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Revised edition no : 1

Date : 29 / 7 / 2011

Supersedes : 26 / 4 / 2011

**Ammonium sulphate****A0502**

## Synonyms

Di-ammonium sulfate

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

### 1.1. Product identifier

Identification of the product : Raw material  
Product code : A0502  
Trade name : Ammonium sulphate  
CAS number : CAS No : 007783-20-2

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

Use : For professional use only.  
Duchefa Biochemie B.V. products are only intended for in vitro laboratory research purposes.

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

Company identification : Duchefa Biochemie B.V.  
A. Hofmanweg 71  
2031 BH Haarlem The Netherlands  
Tel: +31(0)23-5319093  
Fax: +31(0)23-5318027  
E-mail:info@duchefa.nl

### 1.4. Emergency telephone number

Emergency phone nr : Tel: (+31)-(0)23-5319093 (local time : 9.00 to 17.00)  
National Poison Information Centre :Europe NL : +31 30 274 88 88  
(this service is only available to health professionals)  
See [www.who.int/ipcs/en/](http://www.who.int/ipcs/en/) for a local poison centre

## SECTION 2 Hazards identification

### 2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Hazard Class and Category Code Regulation EC 1272/2008 (CLP)

: Not regulated.

### 2.2. Label elements

Labelling EC 67/548 or EC 1999/45

• Symbol(s) : None.

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms code : ---

• Precautionary statements

### 2.3. Other hazards

None under normal conditions.

## SECTION 3 Composition/information on ingredients

Substance / Preparation : Substance.  
Ammonium sulfate  
CAS No :007783-20-2  
EC No :231-984-1  
Annex No :---  
Ref REACH :---

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### SECTION 3 Composition/information on ingredients (continued)

**Components** : This product is not hazardous.  
**Composition** : Molecular weight (g/mol) 132.1  
Structural formula (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>

Substance name	Contents	CAS No	EC No	Annex No	Ref REACH	Classification
Ammonium sulfate	> 99 %	7783-20-2	231-984-1	----	----	-----

Contains no other components or impurities which will influence the classification of the product.

### SECTION 4 First aid measures

#### 4.1. Description of first aid measures

- Inhalation : Remove victim to fresh air.
- Skin contact : Flush with plenty of water.
- Eye contact : Rinse with water.
- Ingestion : Seek medical attention if ill effect develops.  
Give water to drink.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms and effects, both acute and delayed** : No data available.

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

**Medical attention and special treatment needed** : No data available.

### SECTION 5 Fire-fighting measures

#### 5.1. Extinguishing media

**Extinguishing media** : Dry powder.  
- Suitable extinguishing media : Alcohol foam.  
Water.

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

#### 5.3. Advice for fire-fighters

**Protection against fire** : Wear proper protective equipment.  
**Special procedures** : Avoid (reject) fire-fighting water to enter environment.

### SECTION 6 Accidental release measures

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

**Technical measures** : Use good housekeeping practices to avoid rendering dust airborne.

#### 6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters.

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

**Clean up methods** : Dispose in a safe manner in accordance with local/national regulations.  
Sweep up dry powder and dispose properly.

#### 6.4. Reference to other sections

**Reference to other sections** : No Reference

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### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

General : Store in dry, well-ventilated area.

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

Storage : Store at room temperature

#### 7.3. Specific end use(s)

Specific end use(s) : For professional use only.  
Duchefa Biochemie B.V. products are only intended for in vitro laboratory research purposes.

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

#### 8.2. Exposure controls

- Eye protection : Safety glasses.
- Hand protection : In case of repeated or prolonged contact wear gloves.
- Respiratory protection : P1 Where excessive dust may result, wear approved mask.

### SECTION 9 Physical and chemical properties

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

##### • Appearance

Appearance : Powder.  
Colour : White.

##### • Odour

##### • Odour threshold

Odour threshold : Not established.

##### • pH

pH value : Circa 5 100 g/l

##### • Melting point / Freezing point

Melting point [°C] : > 280

##### • Initial boiling point - boiling range

Boiling point [°C] : No data available.

##### • Flash point

Flash point [°C] : Not established.

##### • Evaporation rate

Evaporation rate (ether=1) : No data available.

##### • Flammability

Flammability range [vol% in air] : No data available.

##### • Explosion limits (lower - upper)

Explosion limits : No data available.

##### • Vapour pressure

Vapour pressure : No data available.

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**Ammonium sulphate****A0502****SECTION 9 Physical and chemical properties (continued)****• Vapour density**

Relative vapour density (air=1) : No data available.

**• Relative density**Density : 1.77 g/cm<sup>3</sup>Bulk density [kg/m<sup>3</sup>] : Circa 850**• Solubility**

Solubility in water : 760 g/l

**• Partition coefficient : n-octanol / water****• Auto-ignition temperature**

Auto-ignition temperature [°C] : No data available.

**• Thermal decomposition**

Thermal decomposition [°C] : &gt; 235

**• Viscosity**

Viscosity : No data available.

**• Explosive Properties**

Explosive Properties : Not established.

**• Oxidising properties**

Oxidising properties : Not established.

**9.2. Other information****SECTION 10 Stability and reactivity****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions : An exothermic reaction may occur.

**10.4. Conditions to avoid**

Heat.

**10.5. Incompatible materials**Materials to avoid : Strong bases.  
Strong oxidizers.  
Nitrates.  
Chlorates.**10.6. Hazardous decomposition products**Hazardous decomposition products : NO<sub>x</sub>  
SO<sub>x</sub>  
Ammonia.  
When heated to decomposition, emits dangerous fumes.



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### SECTION 11 Toxicological information

#### 11.1. Information on toxicological effects

- Inhalation : Dust from this product may cause respiratory irritation.
- Dermal : May cause skin irritation.
- Ocular : May cause eye irritation.
- Rat oral LD50 [mg/kg] : 2840
- Mutagenicity : Mutagenicity tests are negative.
- Ames test : Mutagenicity : Ames test : negative

### SECTION 12 Ecological information

#### 12.1. Toxicity

No data available.

24 Hour-LC50 - Daphnia magna [mg/l] : 129

96 Hour-LC50 : 420 mg/l (Danio rerio)

#### 12.2. Persistence - degradability

No data available.

#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

No data available.

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

No data available.

#### 12.6. Other adverse effects

- Ecological effects information : Fertilizer.
- Environmental precautions : Prevent entry to sewers and public waters.  
Avoid release to the environment.
- WGK class (Germany) : 1

### SECTION 13 Disposal considerations

#### 13.1. Waste treatment methods

- General : Avoid release to the environment.  
Dispose in a safe manner in accordance with local/national regulations.

### SECTION 14 Transport information

#### 14.1. UN Number

Not applicable.

General information : Not classified as dangerous in the meaning of transport regulations.

#### 14.2. Proper shipping name

Not applicable.

#### 14.3. Transport Hazard Classification

Not applicable.

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**Ammonium sulphate****A0502****SECTION 14 Transport information (continued)****14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Not applicable.

**14.6. Special precautions for user**

Not applicable.

**14.7. Bulk transport - annex II Marpol 73/78 - IBC**

Not applicable.

**SECTION 15 Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ensure all national/local regulations are observed.

**15.2. Chemical Safety Assessment**

Not established.

**SECTION 16 Other information****Further information**

: The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

**Revision**

: Complete SDS revision 0  
Revision - See : \* 1  
1.3 Add poison centre information  
15. Regulatory information

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

End of document