

## Ammonium sulfate

31119-1KG

Version 1.2

Revision Date 02.09.2022

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

#### 1.1. Product identifier

Product name : Ammonium sulfate  
SDS-number : 000000020416  
Type of product : Substance  
Remarks : Document according to Art. 32 of Regulation (EC) 1907/2006.  
Chemical name : Ammonium sulphate  
CAS-No. : 7783-20-2  
REACH Registration Number : no data available

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

Use of the Substance/Mixture : Laboratory chemicals  
Uses advised against : none

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

Company	: Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
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Telephone :  
For further information, please contact: : [SafetyDataSheet@Honeywell.com](mailto:SafetyDataSheet@Honeywell.com)

#### 1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)  
+1-303-389-1414 (Medical)  
Country based Poison : see chapter 15.1

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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.2. Label elements

##### REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.3. Other hazards

Repeated or prolonged exposure may irritate eyes, skin and respiratory system. Results of PBT and vPvB assessment, see chapter 12.5.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Ammonium sulphate	7783-20-2 231-984-1		100 %	N.C.*

N.C.\* - Non-hazardous substance - for information only

#### 3.2. Mixture

Not applicable

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Occupational Exposure Limit(s), if available, are listed in Section 8.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

*General advice:*

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

*Inhalation:*

Remove to fresh air. If respiratory problems develop, obtain medical attention.

*Skin contact:*

Wash off with soap and plenty of water. If skin irritation persists, call a physician.

*Eye contact:*

Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a physician.

*Ingestion:*

Do NOT induce vomiting. Immediately give large quantities of water to drink. Never give anything by mouth to an unconscious person. Obtain medical attention.

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

No data available

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

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

*Suitable extinguishing media:*

Dry powder  
Carbon dioxide (CO<sub>2</sub>)  
Foam  
Water spray

*Extinguishing media which shall not be used for safety reasons:*

Do not use a solid water stream as it may scatter and spread fire.

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

The product itself does not burn.  
Some risk may be expected of corrosive and toxic decomposition products.  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
Ammonia

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.  
No unprotected exposed skin areas.  
In the event of fire and/or explosion do not breathe fumes.

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### SECTION 6: Accidental release measures

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

Ensure adequate ventilation. Wear personal protective equipment. Unprotected persons must be kept away.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system.

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

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Use mechanical handling equipment.  
Pick for disposal in tightly closed containers  
Avoid dust formation.

### 6.4. Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

*Advice on safe handling:*

Do not breathe dust. Provide exhaust ventilation if dust is formed.

*Advice on protection against fire and explosion:*

Normal measures for preventive fire protection.

*Hygiene measures:*

Wash hands before breaks and at the end of workday. Keep working clothes separately. When using do not eat or drink.

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

*Further information on storage conditions:*

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

no additional data available

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### DNEL/ PNEC-Values

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Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
Ammonium sulphate	Workers / Long-term systemic effects		11,167 mg/m <sup>3</sup>	Inhalation	
Ammonium sulphate	Workers / Long-term systemic effects		42,667mg/kg bw/d	Skin contact	
Ammonium sulphate	Consumers / Long-term systemic effects		1,667 mg/m <sup>3</sup>	Inhalation	
Ammonium sulphate	Consumers / Long-term systemic effects		12,8mg/kg bw/d	Skin contact	
Ammonium sulphate	Consumers / Long-term systemic effects		6,4mg/kg bw/d	Ingestion	

Component	Environmental compartment / Value	Remarks
Ammonium sulphate	Fresh water: 0,312 mg/l	Assessment factor: 10
Ammonium sulphate	Marine water: 0,0312 mg/l	Assessment factor: 100
Ammonium sulphate	Sewage treatment plant: 16,18 mg/l	Assessment factor: 100
Ammonium sulphate	Fresh water sediment: 0,063 mg/kg dw	Assessment factor: 100
Ammonium sulphate	Soil: 62,6 mg/kg dw	Assessment factor: 10

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### 8.2. Exposure controls

#### Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

Do not breathe dust.

Handle in accordance with good industrial hygiene and safety practice.

#### Engineering measures

Use with local exhaust ventilation.

#### Personal protective equipment

##### *Respiratory protection:*

In the case of dust or aerosol formation use respirator with an approved filter.

##### *Hand protection:*

Glove material: Natural Latex

Break through time: > 480 min

Glove thickness: 0,6 mm

Lapren®706

Gloves must be inspected prior to use.

Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions ( e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer´s directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

##### *Eye protection:*

Safety glasses with side-shields

##### *Skin and body protection:*

Protective suit

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### Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

## SECTION 9: Physical and chemical properties

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

Physical state	:	solid
Colour	:	colourless
Odour	:	odourless
molecular weight	:	132,14 g/mol
Melting point (decomposition)	:	350 °C
Boiling point/boiling range	:	No data available
Flammability	:	The product is not flammable.
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	350 °C Decomposition temperature
pH	:	5,0 - 6,0 at 20 °C
Viscosity, kinematic	:	No data available
Water solubility	:	754,0 g/l at 20 °C



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Partition coefficient: n-octanol/water	:	log Pow -5,1
Vapour pressure	:	No data available
Density	:	ca. 1,760 g/cm <sup>3</sup> at 20 °C
Bulk density	:	ca. 1.200 kg/m <sup>3</sup>
Relative vapour density	:	No data available

### 9.2 Other Information

Evaporation rate	:	No data available
Viscosity, dynamic	:	No data available

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

350 °C  
Decomposition temperature

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

Avoid dust formation.

### 10.5. Incompatible materials

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Reactions with strong alkalis.  
Strong oxidizing agents

### 10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:

Ammonia  
Sulphur oxides  
nitrogen oxides

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

*Acute oral toxicity:*

LD50

Species: Rat

Value: 4.250 mg/kg

Method: OECD Test Guideline 401

*Acute dermal toxicity:*

LD50

Species: Rat

Value: > 2.000 mg/kg

Method: OECD Test Guideline 434

*Acute inhalation toxicity:*

Conclusive and supporting classification (Ref: REACH Dossier - ECHA disseminated data)

*Skin irritation:*

Species: Rabbit

Classification: non-irritant

*Eye irritation:*

Species: Rabbit

Classification: non-irritant

*Respiratory or skin sensitisation:*

Result: Not a skin sensitizer.

*Aspiration hazard:*

No data available

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### 11.2. Information on other hazards

Endocrine disrupting properties  
No data available

*Other information:*  
No data available

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## SECTION 12: Ecological information

### 12.1. Toxicity

*Toxicity to fish:*  
LC50  
Species: *Oncorhynchus mykiss* (rainbow trout)  
Value: 53 mg/l  
Exposure time: 96 h

*Toxicity to aquatic plants:*  
Conclusive and supporting classification (Ref: REACH Dossier - ECHA disseminated data)

*Toxicity to aquatic invertebrates:*  
LC50  
Species: *Daphnia* (water flea)  
Value: 169 mg/l  
Exposure time: 48 h

### 12.2. Persistence and degradability

*Biodegradability:*  
Not applicable

### 12.3. Bioaccumulative potential

Not applicable

### 12.4. Mobility in soil

No data available

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### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

Do not flush into surface water.

The product should not be allowed to enter drains, water courses or the soil.

May contribute to eutrophication in static waters.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

*Product:*

Dispose according to legal requirements.

*Packaging:*

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:*

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

For personal protection see section 8.

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## SECTION 14: Transport information

### 14.1 UN number

ADR/RID:Not dangerous goods    IMDG:Not dangerous goods    IATA:Not dangerous goods

### 14.2 UN proper shipping name

ADR/RID:Not dangerous goods

IMDG:Not dangerous goods

IATA:Not dangerous goods

### 14.3 Transport hazard class(es)

### 14.4 Packaging group

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### 14.5 Environmental hazards

ADR/RID: no

Marine pollutant: no

### 14.6 Special precautions for user

No data available

### 14.7 Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

Basis	Value	Remarks
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1$ % (w/w).
Directive 2012/18/EC SEVESO III		Not applicable

### Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250

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Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
Germany	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
Munich : 089/19240	
Latvia	+37167042473

Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftinformation);+46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

### Other inventory information

US. Toxic Substances Control Act  
On TSCA Inventory

Australia. Industrial Chemicals Act (AIC), as amended  
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)  
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List  
On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)  
On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)

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On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)  
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand  
On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI)  
On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out.

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## SECTION 16: Other information

### Further information

All directives and regulations refer to amended versions.  
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community  
CAS Chemical Abstracts Service  
DNEL Derived no effect level  
PNEC Predicted no effect level  
vPvB Very persistent and very bioaccumulative substance  
PBT Persistent, bioaccumulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

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