

## Ammonium formate

17843-50G

Version 1.1

Revision Date 30.04.2017

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

#### 1.1. Product identifier

Product name : Ammonium formate  
SDS-number : 000000020231  
Type of product : Substance  
Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.  
Chemical name : Ammonium formate  
CAS-No. : 540-69-2  
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  
Morris Plains, NJ 07950-2546  
USA

Telephone :  
Telefax :  
For further information,  
please contact: : PMTEU Product Stewardship:  
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 Control Center : see chapter 15.1

### SECTION 2: Hazards identification

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

## Ammonium formate

17843-50G

Version 1.1

Revision Date 30.04.2017

### REGULATION (EC) No 1272/2008

Eye irritation Category 2  
H319 Causes serious eye irritation.

### 2.2. Label elements

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

Hazard pictograms



Signal word

: Warning

Hazard statements

: H319

Causes serious eye irritation.

Precautionary statements

: P280

Wear protective gloves/ eye protection/  
face protection.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water  
for several minutes. Remove contact  
lenses, if present and easy to do.

Continue rinsing.

P308 + P313

IF exposed or concerned: Get medical  
advice/ attention.

### 2.3. Other hazards

Avoid dust formation.

## 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 formate	540-69-2 208-753-9	Eye Irrit. 2; H319	100 %	1*

1\* - For specific concentration limits see Annexes of 1272/2008

### 3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.

## Ammonium formate

17843-50G

Version 1.1

Revision Date 30.04.2017

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 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:*

If inhaled, remove to fresh air.

*Skin contact:*

After contact with skin, wash immediately with plenty of water.

*Eye contact:*

Protect unharmed eye. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

*Ingestion:*

When swallowed, allow water to be drunk. Call a physician immediately.

#### 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

no data available

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

:

## Ammonium formate

17843-50G

Version 1.1

Revision Date 30.04.2017

---

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

*Suitable extinguishing media:*

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

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

High volume water jet

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

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

Ammonia  
carbon oxides (CO, CO<sub>2</sub>).

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

---

### SECTION 6: Accidental release measures

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

Wear personal protective equipment. Unprotected persons must be kept away. Avoid dust formation.

#### 6.2. Environmental precautions

Should not be released into the environment.

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

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.

---

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

## Ammonium formate

17843-50G

Version 1.1

Revision Date 30.04.2017

*Advice on safe handling:*

Exhaust ventilation at the object is necessary.

*Advice on protection against fire and explosion:*

Normal measures for preventive fire protection.

*Hygiene measures:*

Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use.  
Wash hands before breaks and at the end of workday. 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

## 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

No DNEL-data available.

No PNEC data available.

### 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, safety shoes EN-ISO 20345.

Do not breathe dust.

#### Personal protective equipment

*Respiratory protection:*

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

*Hand protection:*

## Ammonium formate

17843-50G

Version 1.1

Revision Date 30.04.2017

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 goggles

*Skin and body protection:*

Protective suit

### 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

Form	: crystalline
Colour	: white
Odour	: odourless
molecular weight	: 63,06 g/mol
Melting point/range	: ca. 116 °C
Flash point	: Not applicable
Flammability (solid, gas)	: no data available
Ignition temperature	: no data available
Lower explosion limit	: Not applicable

## Ammonium formate

17843-50G

Version 1.1

Revision Date 30.04.2017

Upper explosion limit	: Not applicable
Vapour pressure	: no data available
Density	: ca. 1,266 g/cm <sup>3</sup> at 20 °C
Bulk density	: ca. 660 kg/m <sup>3</sup>
pH	: 6,0 - 7,0 at 20 °C
Water solubility	: completely soluble
Partition coefficient: n-octanol/water	: no data available

### 9.2 Other Information

The product is hygroscopic.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No decomposition if stored and applied as directed.

### 10.2. Chemical stability

No decomposition if used as directed.

### 10.3. Possibility of hazardous reactions

no data available

### 10.4. Conditions to avoid

Protect from atmospheric moisture and water.

### 10.5. Incompatible materials

Strong oxidizing agents  
Strong acids

### 10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:  
Ammonia  
carbon oxides (CO, CO<sub>2</sub>).

## Ammonium formate

17843-50G

Version 1.1

Revision Date 30.04.2017

---

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

*Acute oral toxicity:*

LD50

Species: Mouse

Value: 2.250 mg/kg

*Acute dermal toxicity:*

no data available

*Acute inhalation toxicity:*

no data available

*Skin irritation:*

no data available

*Eye irritation:*

Classification: Irritating to eyes.

*Respiratory or skin sensitisation:*

no data available

*Aspiration hazard:*

no data available

*Other information:*

no data available

---

### SECTION 12: Ecological information

#### 12.1. Toxicity

*Toxicity to fish:*

no data available

*Toxicity to aquatic plants:*

no data available

*Toxicity to aquatic invertebrates:*

no data available

#### 12.2. Persistence and degradability

no data available

#### 12.3. Bioaccumulative potential



## Ammonium formate

17843-50G

Version 1.1

Revision Date 30.04.2017

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

no data available

## 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.

## SECTION 14: Transport information

### ADR/RID

Not dangerous goods

### IATA

Not dangerous goods

### IMDG

Not dangerous goods

## SECTION 15: Regulatory information

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

#### Poison Control Center

Country	Phone Number	Country	Phone Number
---------	--------------	---------	--------------

## Ammonium formate

17843-50G

Version 1.1

Revision Date 30.04.2017

Austria	+4314064343
Belgium	070 245245
Bulgaria	(+35929154233
Croatia	(+3851)23-48-342
Cyprus	no data available
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	no data available
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	no data available
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
Liechtenstein	no data available
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	no data available
Netherlands	030-2748888
Norway	22591300
Poland	no data available
Portugal	808250143
Romania	no data available
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	no data available
Spain	+34915620420
Sweden	112 (begär Giftinformation); +46104566786
United Kingdom	no data available

### Other inventory information

US. Toxic Substances Control Act  
On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act  
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. Toxic Chemical Control Law (TCCL) List  
On the inventory, or in compliance with the inventory

## Ammonium formate

17843-50G

Version 1.1

Revision Date 30.04.2017

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act  
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances  
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

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

### Text of H-statements referred to under heading 3

Ammonium formate : H319 Causes serious eye irritation.

### 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 and 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.