according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3 Revision Date 17.12.2022

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

Number

: no data available

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

Use of the : Laboratory chemicals

Substance/Mixture

REACH Registration

Uses advised against : none

1.3. Details of the supplier of the safety data sheet

Company : Honeywell International Inc. Honeywell International, Inc.

115 Tabor Road 115 Tabor Road

07950-2546 Morris Plains Morris Plains, NJ 07950-2546

USA USA

Telephone

For further information, : SafetyDataSheet@Honeywell.com

please contact:

1.4. Emergency telephone number

Emergency telephone : +1-703-527-3887 (ChemTrec-Transport)

number +1-303-389-1414 (Medical)

Country based Poison : see chapter 15.1

Page 1 / 15

according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3 Revision Date 17.12.2022

Control Center

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

 $\langle ! \rangle$

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

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according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3

Revision Date 17.12.2022

	Index-No. REACH Registration Number EC-No.			
Ammonium formate	540-69-2 208-753-9	Eye Irrit. 2; H319	100 %	

3.2. Mixture

Not applicable

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.

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. If easy to do, remove contact lens, if worn. Rinse immediately with plenty of water, also under the eyelids. Consult a physician.

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

Page 3 / 15

according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3

Revision Date 17.12.2022

Treat symptomatically.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray Foam Carbon dioxide (CO2) 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, CO2).

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.

Page 4 / 15

according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3

Revision Date 17.12.2022

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

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

according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3

Revision Date 17.12.2022

No DNEL-data available.

Ammonium formate | No data available

No PNEC data available.

Ammonium formate : No 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, 511; 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:

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 reccomends to use the chemical protective glove in practice not longer than 50% of the recomended 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:

according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3 Revision Date 17.12.2022

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

Physical state : solid

Colour : white

Odour : odourless

molecular weight : 63,06 g/mol

Melting point/range : ca. 116 °C

Flammability : No data available

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No decomposition if used as directed.

pH : 6,0 - 7,0

at 20 °C

Viscosity, kinematic : No data available

Water solubility : completely soluble

Partition coefficient: n-

octanol/water

: No data available

according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3 Revision Date 17.12.2022

Vapour pressure : No data available

Density : ca. 1,266 g/cm3

at 20 °C

Bulk density : ca. 660 kg/m3

Relative vapour density : No data available

9.2 Other Information

The product is hygroscopic.

Evaporation rate : No data available

Viscosity, dynamic : No data available

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

according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3

Revision Date 17.12.2022

10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as: Ammonia carbon oxides (CO, CO2).

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:

Species: reconstructed human epidermis (RhE)

Method: OECD Test Guideline 439

non-irritant

Eye irritation:

Classification: Irritating to eyes.

Respiratory or skin sensitisation:

Direct Peptide Reactivity Assay (DPRA) Method: OECD Test Guideline 442C

non-sensitizing

Carcinogenicity: Note: Not classified

Germ cell mutagenicity:

Test Method: reverse mutation assay Cell type: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3

Revision Date 17.12.2022

Method: OECD Test Guideline 471

Reproductive toxicity: Remarks: Not classified

STOT - single exposure:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single

exposure.

STOT - repeated exposure:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated

exposure.

Aspiration hazard:

No data available

11.2. Information on other hazards

Endocrine disrupting properties

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:

EC50

Species: Daphnia magna (Water flea)

Value: 365 mg/l Exposure time: 48 h

Method: OECD Test Guideline 202

12.2. Persistence and degradability

Page 10 / 15

according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3

Revision Date 17.12.2022

Biodegradability: 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. Endocrine disrupting properties

No data available

12.7. 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

14.1 UN number

ADR/RID:Not dangerous goods IMDG:Not dangerous goods Page 11 / 15

IATA: Not dangerous goods

according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3

Revision Date 17.12.2022

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

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
Directive 2012/18/EC		Not applicable
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 ≥ 0.1 % (w/w).

Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052

according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3

Revision Date 17.12.2022

Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
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
	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
Germany	Freiburg : 0761/19240
Comany	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
	Munich : 089/19240
Latvia	+37167042473

Luxambaura	070245245; (+352)80002-5500
Luxembourg	070245245, (+352)60002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250
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. Inventory of Industrial Chemicals (AIIC), 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

Page 13 / 15

according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3

Revision Date 17.12.2022

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)

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 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 biaccumulative substance

PBT Persistent, bioaccmulative und toxic substance

Page 14 / 15

according to Regulation (EC) No. 1907/2006



Ammonium formate

55674-50G

Version 1.3

Revision Date 17.12.2022

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