

Safety Data Sheet**LCMS Grade Ammonium Formate Aqueous Solution**

SECTION 1: Identification**1.1 Product identifier**

Product name	LCMS Grade Ammonium Formate Aqueous Solution
Product number	19221
Brand	CovaChem
Substance name	Ammonium formate
CAS no.	540-69-2

1.2 Other means of identification

Ammonium Formate, LCMS Grade Ammonium formate, Formic acid ammonium salt

1.3 Recommended use of the chemical and restrictions on use

For laboratory use only. Intended for use as a research laboratory chemical or in the manufacturing of substances.

1.4 Supplier's details

Name	CovaChem, LLC.
Address	6260 East Riverside Blvd Suite 119 Loves Park, IL 61111 United States
Telephone	815-315-1271
Fax	815-315-1272
email	info@covachem.com

1.5 Emergency phone number(s)

PERS Professional Emergency Response Service
Company Code 11814
1-800-633-8253 (U.S. & Canada)
1-801-629-0667 (International)

SECTION 2: Hazard identification**General hazard statement**

Not a hazardous substance

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Other hazards which do not result in classification

None

SECTION 3: Composition/information on ingredients

Safety Data Sheet

LCMS Grade Ammonium Formate Aqueous Solution

3.1 Substances

Substance name	Ammonium formate
CAS no.	540-69-3
Formula	C-H5-O2-N
Molecular weight	63.06
Other names / synonyms	Formic acid, ammonium salt (1:1); AMMONIUMFORMATE; Ammonium formate
Impurities and stabilizing additives	No additional ingredients present known to the supplier, which are classified as hazardous to health or environment, which would require reporting herein.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	In the event of exposure, move away from the dangerous area, and contact a physician immediately. Show this safety data sheet to physician, as a reference.
If inhaled	Move affected person to fresh air. Give artificial respiration if person is not breathing. Contact a physician immediately.
In case of skin contact	Wash and scrub thoroughly with soap and water. Contact a physician.
In case of eye contact	Without delay, flush and rinse the inside and outside of the eyelid with copious amounts of water. Ensure that contact lenses, if present are removed. Contact a physician immediately.
If swallowed	Do not give anything by mouth if person is unconscious. Wash mouth with water. If material has been swallowed, give small amounts of water to the affected person. Contact a physician immediately.

4.2 Most important symptoms/effects, acute and delayed

The most important symptoms and effects are described in section 2 and section 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Data not available.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Water spray, dry chemical, carbon dioxide or alcohol resistant foam are all suitable extinguishing media.

5.2 Specific hazards arising from the chemical

No specific fire or explosion hazards known, although nitrogen oxides (NO_x) and carbon oxides may form in the event of a fire.

5.3 Special protective actions for fire-fighters

Firefighters should wear a self-contained breathing apparatus (SCBA) with full face piece and other appropriate protective equipment.

Further information

Potentially Hazardous Thermal Decomposition Products Formed In The Event of Fire Include:
-Carbon monoxide

Safety Data Sheet

LCMS Grade Ammonium Formate Aqueous Solution

-Carbon dioxide
-Nitrogen oxides (NO_x)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment. Avoid breathing dust, vapors, mist or gas. Evacuate the affected area, keeping unprotected personnel away from the area. Avoid dust creation, and do not walk through spilled material.

6.2 Environmental precautions

Take adequate precautions to prevent spilled materials from entering waterways, sewers or drainage systems. Prevent further spillage of material, if possible.

6.3 Methods and materials for containment and cleaning up

Without creating dust, scoop the spilled contents and store in a suitable, closed container for disposal.

Reference to other sections

See section 13 for disposal information

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid the formation of dust or aerosols. Use in a well ventilated area. Avoid contact with skin, eyes or respiratory tract.

7.2 Conditions for safe storage, including any incompatibilities

Keep stored in a tightly closed container, protected from moisture and direct sunlight.

Recommended Storage temperature: +2 - 8 °C

Specific end use(s)

For laboratory use only. Intended for use as a research laboratory chemical or in the manufacturing of substances.

SECTION 8: Exposure controls/personal protection

8.2 Appropriate engineering controls

Handle with appropriate safety practices and good industrial hygiene. Wash hands and arms regularly before break periods and at the end of workday.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Face Shield or Safety Goggles

Skin protection

Nitrile gloves, with minimum thickness or 0.11 mm

Body protection

Respiratory protection

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Safety Data Sheet

LCMS Grade Ammonium Formate Aqueous Solution

Appearance/form	Liquid Solution
Odor	not available
Odor threshold	not available
pH	6.0 - 7.0 at 5 % solution at 25 °C
Melting point/freezing point	not available
Initial boiling point and boiling range	not available
Flash point	not available
Evaporation rate	not available
Flammability (solid, gas)	not available
Upper/lower flammability limits	not available
Upper/lower explosive limits	not available
Vapor pressure	not available
Vapor density	not available
Relative density	not available
Solubility(ies)	soluble in water
Partition coefficient: n-octanol/water	not available
Auto-ignition temperature	not available
Decomposition temperature	not available
Viscosity	not available
Explosive properties	not available
Oxidizing properties	not available

SECTION 10: Stability and reactivity

10.1 Reactivity

No test data available regarding the reactivity of this product or its ingredients.

10.2 Chemical stability

Product is stable.

10.3 Possibility of hazardous reactions

Data Not Available

10.4 Conditions to avoid

Exposure to moisture

10.5 Incompatible materials

Strong acids and Strong Oxidizing Agents

10.6 Hazardous decomposition products

-Carbon monoxide
-Carbon dioxide
-Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Data Not Available

Skin corrosion/irritation

Data Not Available

Serious eye damage/irritation

Data Not Available

Safety Data Sheet

LCMS Grade Ammonium Formate Aqueous Solution

Respiratory or skin sensitization

Data Not Available

Germ cell mutagenicity

Data Not Available

Carcinogenicity

Data Not Available

Reproductive toxicity

Data Not Available

Summary of evaluation of the CMR properties

Data Not Available

STOT-single exposure

Inhalation - May cause respiratory irritation

STOT-repeated exposure

Data Not Available

Aspiration hazard

Data Not Available

Additional information

Data Not Available

SECTION 12: Ecological information

Toxicity

Data Not Available

Persistence and degradability

Readily biodegradable

Bioaccumulative potential

Bioaccumulation is not likely

Mobility in soil

Data Not Available

Results of PBT and vPvB assessment

Data Not Available

Other adverse effects

Data Not Available

SECTION 13: Disposal considerations

Disposal of the product

Generation of waste should be kept to a minimum when possible. Any waste generated should be recycled when possible. Please dispose any unused or used materials in accordance with applicable national, regional and local laws and regulations.

Disposal of contaminated packaging

Dispose of in the same way as disposing of unused product.

Safety Data Sheet

LCMS Grade Ammonium Formate Aqueous Solution

SECTION 14: Transport information

DOT (US)

UN Number: Not Dangerous Goods
Class:
Packing Group:
Proper Shipping Name:
Reportable quantity (RQ):
Marine pollutant:
Poison inhalation hazard:

IMDG

UN Number: Not Dangerous Goods
Class:
Packing Group:
EMS Number:
Proper Shipping Name:

IATA

UN Number: Not Dangerous Goods
Class:
Packing Group:
Proper Shipping Name:

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components

No component in this product is subject to the reporting requirements of SARA, Title III, Section 302

SARA 311/312 Hazards

No SARA Hazards

SARA 313 Components

No component in this product is subject to the reporting requirements of SARA, Title III, Section 313

Pennsylvania Right To Know Components

Chemical name: Ammonium Formate
CAS number: 540-69-2

New Jersey Right To Know Components

Common name: AMMONIUM FORMATE
CAS number: 540-69-2

Massachusetts Right To Know Components

Chemical name: Ammonium formate
CAS number: 540-69-2

15.2 Chemical Safety Assessment

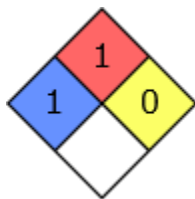
The customer shall determine the appropriate level of personal protective equipment to use.

HMIS Rating

Ammonium acetate	
HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

Safety Data Sheet
LCMS Grade Ammonium Formate Aqueous Solution

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

The information represented in this Safety Data Sheet is believed to be correct and is based on the current state of our knowledge. This document or any other document does not represent or suggest any type of warranty or guarantee of the product properties or characteristics of this material. CovaChem, LLC and its affiliates shall not be held liable for any damages that result from contact with the above product or handling this product or any others.