

---

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	Ammonium Formate
Grade	ACS, HPLC, Pesticide, Anapremium, LCMS, Trace Metal, Trace Metal Plus
Company	Anaqua Chemicals Supply
	1510 Eldridge Parkway, Suite 110-268 Houston, TX 77077, USA
Telephone	(281) 668-0032
Fax	(281) 668-0033

---

**2. COMPOSITION/ INFORMATION ON INGREDIENTS**

Formula	C <sub>2</sub> H <sub>7</sub> NO <sub>2</sub>
CAS-No.	540-69-2
Index-No.	
Ec-No.	208-753-9
Concentration	> 95 %

---

**3. HAZARDS IDENTIFICATION****GHS Classification**

Skin irritation	Category 2
Eye irritation	Category 2
Specific target organ toxicity - Single exposure	Category 3

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Irritating to eyes, respiratory system and skin.

---

**4. FIRST AID MEASURES**

Inhalation	If breathed in, move to fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Rinse mouth with water. Consult a physician immediately.
Skin Contact	Immediately wash off with plenty of water for at least 15 minutes. Consult a physician.
Eye Contact	Rinse through with plenty of water for at least 15 minutes. Consult a physician.
Note to Physician	Treat symptomatically

---

**5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment	Wear self contained breathing apparatus for fire fighting if necessary.
Special hazards arising from the mixture	Carbon oxides, nitrogen oxides (NO <sub>x</sub> )

---

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions	Do not let product enter drains
Methods for cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

---

## 7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.

---

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Occupational exposure controls

Engineering Measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
----------------------	--

### Personal protective Equipment

Respiratory protection	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Hand protection	Wear appropriate protective gloves.
Eye protection	Tightly fitting safety glasses.
Skin and body protection	Protective clothes should be selected specifically for the work place according to concentration and quantity of the chemical handled.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and at the end of working day.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Crystalline
Color	Colourless
pH	5.5 – 7.5 at 63.1 g/l at 25 °C
Oxidizing properties	No data available
Melting point	119 – 121 °C
Boiling point	No data available
Flash point	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	No data available
Density	1.26 g/cm <sup>3</sup> at 25 °C
Water solubility	63.1 g/l at 20 °C - completely soluble

Relative vapour density	No data available
Molecular weight	63.06

---

## 10. STABILITY AND REACTIVITY

Storage stability	No information available
Conditions to avoid	Exposure to moisture.
Materials to avoid	Strong oxidizing agents, Strong acids
Hazardous decomposition products	No information available

---

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - mouse – 2,250 mg/kg
Skin irritation	No information available
Eye irritation	No information available
Sensitization	No information available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Potential health effects	<p><b>Inhalation</b> May be harmful if inhaled. Causes respiratory tract irritation.</p> <p><b>Ingestion</b> May be harmful if swallowed.</p> <p><b>Skin</b> May be harmful if absorbed through skin. Causes skin irritation.</p> <p><b>Eyes</b> Causes severe eye burns</p>
Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information	RTECS: BQ6650000

---

## 12. ECOLOGICAL INFORMATION

Persistence and degradability	No information available
Ecotoxicity	No information available
Toxicity to fish	No information available
<b>Bioaccumulative potential</b>	No information available
<b>Other adverse effects</b>	No information available

---

## 13. DISPOSAL CONSIDERATIONS

Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Packaging	Dispose of as unused product.

---

## 14. TRANSPORT INFORMATION

IATA	
UN-Number: - Class: -	Packing group: -
Proper shipping name: Not dangerous goods	

IMDG

UN-Number: - Class: - Packing group: -

Proper shipping name: Not dangerous goods

DOT (US)

UN-Number: - Class: - Packing group: -

Proper shipping name: Not dangerous goods

Marine pollution: No

---

## 15. REGULATORY INFORMATION

### Hazard statements

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

### Precautionary statements

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

### GHS-Labeling

Pictogram



Signal word *Warning*

R-phrase(s): 36/37/38

Irritating to eyes, respiratory system and skin.

S-phrase(s): 26-36

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. **Wear suitable protective clothing.**

---

## 16. OTHER INFORMATION

Copyright 2011 Anaqua Chemicals Supply. License granted to make unlimited paper copies for internal use only. The information, data, and recommendations in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process. The information, data, and recommendations set forth herein are believed by us to be accurate. We make no warranties, either expressed or implied, with respect thereto and assume no liability in

connection with any use of such information, data, and recommendations.