



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Ammonium chloride**

PRODUCT NUMBER: 1057

CAS NUMBER: 12125-02-9

SYNONYMS: Ammonium Chloratum; Ammonium Chloridum; Ammonium Muriate; Sal Ammonia; Salmiac

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Warning**

### Hazard Statements

H302	Harmful if swallowed
H316	Causes mild skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H401	Toxic to aquatic life

### Precautionary Phrases

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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**POTENTIAL HEALTH EFFECTS:** Ingestion and inhalation

**EYE CONTACT:** Causes eye irritation

**SKIN CONTACT:** Harmful if absorbed through skin. Causes skin irritation.

**INHALATION:** May be harmful if inhaled. Causes respiratory tract irritation.

**INGESTION:** Harmful if swallowed.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: NH<sub>4</sub>Cl

Molecular Weight: 53.49

CHEMICAL NAME	CAS#	%	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Ammonium chloride	12125-02-9	100	10	20

### SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Check for and remove contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

**SKIN EXPOSURE:** In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**INGESTION:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt, or waistband.

### SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not applicable

**AUTO IGNITION TEMPERATURE:** Not applicable

**EXPLOSION LIMITS:** None

**EXTINGUISHING MEDIUM:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self contained breathing apparatus for fire fighting if necessary.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Nitrogen oxides, hydrogen chloride gas

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Always wear appropriate protective equipment.

**ENVIRONMENTAL PRECAUTIONS:** Do not let enter drains.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in a suitable, closed container for proper disposal.

### SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

**CONDITIONS FOR SAFE STORAGE:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25° C.

### SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EYE PROTECTION:** Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

**SKIN PROTECTION:** Chemical-resistant.

**VENTILATION:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White powder  
**MOLECULAR WEIGHT:** 53.49  
**BOILING POINT:** 520° C  
**MELTING POINT:** 340° C  
**SPECIFIC GRAVITY:** 1.53 gm/ml  
**BOILING POINT:** Not available  
**VAPOR PRESSURE:** Not applicable  
**pH:** 5.5 @ 50 g/L @ 20° C  
**SOLUBILITY:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**CONDITIONS TO AVOID:** Moisture  
**INCOMPATIBILITY:** Strong acids, strong bases, and strong oxidizing agents.  
**DECOMPOSITION PRODUCTS:** Nitrogen oxides, hydrogen chloride gas.

## SECTION 11 TOXICOLOGICAL DATA

**CARCINOGENIC EFFECTS:** 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.  
**MUTAGENIC EFFECTS:** Not available  
**TETRATOGENIC EFFECTS:** Not available  
**DEVELOPMENTAL TOXICITY:** Not available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

Toxicity to fish

LC50-Cyprinus carpio (Carp)- 209.00 mg/l – 96 h  
LC50- Oncorhynchus mykiss (rainbow trout) – 3.98 mg/l – 96 h  
NOEC – Oncorhynchis mykiss (rainbow trout) – 57 mg/l – 96 h

Toxicity to daphnia and other aquatic invertebrates

Growth inhibition NOEC – Daphnia magna (Water flea) – 0.1 mg/l – 216 h

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

## SECTION 14 TRANSPORTATION DATA

Non-hazardous

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA inventory  
**SARA 311/312 HAZARDS:** Acute health hazard  
**SARA 313 COMPONENTS:** This product is subject to reporting levels established by SARA Title III, Section 313.

## **SECTION 15 REGULATORY INFORMATION (Cont.)**

**PENNSYLVANIA RIGHT TO KNOW:** Ammonium chloride

**MASSACHUSETTS RIGHT TO KNOW:** Ammonium chloride

**NEW JERSEY RIGHT TO KNOW:** Ammonium chloride

## **SECTION 16 OTHER INFORMATION**

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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