

# SAFETY DATA SHEET

## SUPERIOR AMMONIUM CHLORIDE

DATE REVISED: June 23, 2017

**Product Name/Part Number:** Superior Ammonium Chloride

**Manufacturer:** Superior Flux & Mfg. Co. 6615 Parkland Blvd. Cleveland OH, 44139

**Emergency Phone Number: 1-800-424-9300 (CHEMTREC)**

**Other Information Calls:** (440) 349-3000

---

### SECTION 1 -- IDENTIFICATION

**Common Name:** Ammonium Chloride, Sal ammoniac, Salmiac

**CAS Number:** 12125-02-9

**Chemical Name:** Ammonium Chloride

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

---

### SECTION 2 – HAZARDS IDENTIFICATION

Classification of Substance or Mixture:

**GHS Classification:**

Acute toxicity, Oral (Category 4), H302

Eye irritation (Category 2A), H319

Acute aquatic toxicity (Category 2), H400

Chronic aquatic toxicity (Category 2), H410

See section XVI for full text description of H-Statements

**Label Elements**



**Pictogram(s):**

**Signal Word:** Warning

**Hazard Statement(s)**

H302 Harmful if swallowed

H319 Causes serious eye irritation

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

**Precautionary statement(s)**

P264 Wash skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301+P312+P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth

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

P337+P313 If eye irritation persists, get medical advice/attention

P391 Collect spillage

P501 Dispose of contents and/or container to an approved waste disposal plant

**Hazards not otherwise classified or not covered by GHS:** None

---

---

## SECTION 3 – COMPOSITION INFORMATION

Components	CAS Number	%
Ammonium chloride	12125-02-9	98-100

None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

---

## SECTION 4 – FIRST AID MEASURES

### Description of first aid measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** Remove to fresh air. Consult a physician.

**Eyes:** Flush with water for fifteen (15) Minutes. Remove contacts if present and easy to do so. Call physician.

**Skin:** Wash off with plenty of soap and water. Consult a physician.

**Ingestion:** Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician

### Most Important Symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2 (labeling)

**Medical Conditions Generally Aggravated by Exposure:** Any weakness of the lungs, kidneys or liver will be aggravated.

**OSHA Permissible Exposure Limit (PEL):** 10 mg/m<sup>3</sup>

**ACGIH Threshold Limit Value (TLV):** 10 mg/m<sup>3</sup>

---

## SECTION 5 – FIREFIGHTING MEASURES

**Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**Special Hazards:** No data available

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary

---

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Equipment:** Use personal protective equipment. Avoid dust formation.

Avoid breathing vapors, dust, mist or gas. Ensure adequate ventilation.

See section 8 for personal protection.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**In Case Material is spilled:** Pick up and arrange disposal without creating dust. Sweep up and shovel.

Keep in suitable, closed containers for disposal.

---

## SECTION 7 - HANDLING AND STORAGE

**Storage Requirements:** Store in tightly closed, plastic containers. Keep containers in a dry and well-ventilated place.

Hygroscopic. Keep in a dry place.

**Handling Precautions:** Avoid contact with skin and eyes. Avoid aerosol and dust formation. Provide appropriate and adequate ventilation for dust and/or fumes.

For precautions see Section 2

---

---

## SECTION 8 - CONTROL MEASURES

**Respiratory Protection:** For nuisance exposures use type P95 (US) particle respirator. For higher level protection use type OV/AG/P99 respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Ventilation:** Yes      **Mechanical (General):** Yes      **Local Exhaust:** Yes

**Protective Gloves:** Yes – Nitrile rubber, at least 0.11mm thick. Use equipment tested and approved under NIOSH standards.

**Eye Protection:** Safety glasses conforming to EN166. Use equipment tested and approved under NIOSH standards.

**Other Protective Clothing or Equipment:** Rubber apron

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of the anticipated use. It should not be construed as offering an approval for any specific use scenario.

---

## SECTION 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

<b>Appearance:</b>	Powder
<b>Odor:</b>	No data available
<b>pH:</b>	4.5-5.5 (5% solution) at 20°C/68°F
<b>Melting/Freezing Point:</b>	340°C/644°F
<b>Boiling Point/Range:</b>	No data available
<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	No data available
<b>Flammability (solid/gas)</b>	No data available
<b>Upper/lower flammability or explosive limits</b>	No data available
<b>Vapor Pressure</b>	1.0mmHg at 160.4°C/320.7°F
<b>Vapor Density</b>	No data available
<b>Relative Density</b>	No data available
<b>Bulk Density</b>	500 kg/m <sup>3</sup>
<b>Water Solubility</b>	Soluble
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	No data available

---

## SECTION 10 - STABILITY AND REACTIVITY

**Reactivity:** No data available

**Stability:** Product is stable under recommended storage conditions

**Possibility of hazardous reactions:** No data available

**Conditions to Avoid:** Exposure to moisture may affect product quality.

**Incompatibility:** Strong acids, strong bases, strong oxidizing agents

**Hazardous Decomposition Products** Under fire conditions: Nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride gas  
In the event of fire: See Section 5

---

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Acute Toxicity Data

- 1) **Oral:** LD-50 (rat): 1,650 mg/kg
- 2) **Inhalation:** No data available
- 3) **Dermal:** No data available

**Skin Corrosion/Irritation:** Rabbit- no skin irritation

**Serious eye damage/eye irritation** Rabbit – Eye irritation

---

## SECTION 12 - ECOLOGICAL INFORMATION

**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 - Oncorhynchus mykiss (rainbow trout) - 57 mg/l - 96 h

**Toxicity to daphnia and other aquatic invertebrates** LC50 - Daphnia magna (Water flea) - 161 mg/l - 48 h  
Growth inhibition NOEC - Daphnia magna (Water flea) - 0.1 mg/l – 216h

---

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material

---

## SECTION 14- TRANSPORTATION

**D.O.T. Proper Shipping Name:** Environmentally hazardous substances, solid, N.O.S. (Ammonium chloride)

**Identification Number:** UN 3077

**Hazard Class:** 9

**Packing Group:** III

---

## SECTION 15 - REGULATORY INFORMATION

**Carcinogenicity Classification (Components Present at 0.1% or More):** Non-carcinogenic

**International Agency for Research on Cancer (IARC):** Not listed

**American Conference of Governmental Industrial Hygienists (ACGIH):** Not listed

**National Toxicology Program (NTP):** Not listed

**Occupational Safety and Health Administration (OSHA):** Not listed

**None of the components of this product are listed on the U.S. toxic substances control act inventory or otherwise comply with TSCA pre-manufacture notification requirements.**

---

## SECTION 16 - OTHER INFORMATION

**Full text of H-Statements and P-Statements referred to in Section II and/or III.**

H302 Harmful if swallowed  
H319 Causes serious eye irritation  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects

### HMIS Rating

Health 2  
Flammability 0  
Reactivity 0

**Further information:**

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. The above information does not represent any guarantee of the properties of the product. It is believed to be correct, but does not purport to be all inclusive and should be used only as a guide. Reasonable care has been taken in the preparation of this material, and is based on the present state of our knowledge.

Superior Flux & Mfg. Co. shall not be held liable for any damage resulting from handling or from contact with the above product.

**Preparation information**

Superior Flux & Mfg. Co.

440-349-3000

Version 1.0

Revision Date: 06/23/2017

---