



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1

PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Ammonium chloride**

PRODUCT NUMBER: 1053

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.
H319	Causes serious eye irritation.
H401	Toxic to aquatic life.

Precautionary Phrases

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/physician if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local regulations.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

EYE CONTACT: Causes eye irritation

SKIN CONTACT: May cause skin irritation.

INHALATION: May cause respiratory tract irritation.

INGESTION: May be harmful if swallowed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: NH_4Cl

Molecular Weight: 53.49

CHEMICAL NAME	CAS#	%
Ammonium chloride	12125-02-9	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Rinse with plenty of water for at least 15 minutes and seek medical attention.

SKIN EXPOSURE: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and was using soap. 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. Wash out mouth with water. Get medical attention.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable

AUTO IGNITION TEMPERATURE: Not applicable

EXPLOSION LIMITS: None

EXTINGUISHING MEDIUM: Use appropriate media for adjacent fire. Cool containers with water.

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

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

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. Store away from incompatible materials.

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.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

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

BOILING POINT: Not available

VAPOR PRESSURE: Not applicable

pH: 5.5 @ 50 g/L @ 20° C

SOLUBILITY IN WATER: 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, ammonia.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50-Oral-Rat-1650 mg/kg.

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 daphnia and other aquatic invertebrates

LC50-Cyprinus carpio (Carp)- 209 mg/l – 96 h

LC50- Oncorhynchus mykiss (rainbow trout) – 4 mg/l – 96 h

NOEC – Oncorhynchis mykiss (rainbow trout) – 57 mg/l – 96 h

LC50 - Daphnia magna – 161 mg/l – 48 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: Not listed

PENNSYLVANIA RIGHT TO KNOW: Ammonium chloride

MASSACHUSETTS RIGHT TO KNOW: Ammonium chloride

NEW JERSEY RIGHT TO KNOW: Ammonium chloride

RHODE ISLAND RIGHT TO KNOW: Ammonium chloride

SECTION 16 OTHER INFORMATION

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DATE REVISED: 09/22

SDS DEPT.