

SAFETY DATA SHEET

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0 SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Ammonium chloride**

PRODUCT NUMBER: 1054

CAS NUMBER: 12125-02-9

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

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Acute toxicity, oral	Category – 4
Skin corrosion / irritation	Category – 3
Serious eye damage / eye irritation.	Category – 2B
Special target organ toxicity, single exposure; Respiratory tract irritation	Category – 3
Hazardous to the aquatic environment, acute hazard	Category – 3

Pictogram



Signal Word **Warning**

Hazard Statements

H302	Harmful if swallowed
H316	Causes mild skin irritation
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H401	Toxic to aquatic life.

Precautionary Phrases

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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: 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 oxide and 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 OSHA 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
VAPOR PRESSURE: Not applicable
pH: 5-5.5 @ 25° 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 and hydrogen chloride gas.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral - Rat - male and female - 1,410 mg/kg**.** LD50 Dermal - Rat - male and female - > 2,000 mg/kg**.** LD50 Oral 1650 mg/kg (Rat) - LD50 Dermal LC50 Inhalation > 2000 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 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
TOXICITY TO ALGEA: Static test ErC50 - Chlorella vulgaris (Fresh water algae) - 1,300 mg/l - 5 d
TOXICITY TO BACTERIA: Toxicity to bacteria static test EC50 - activated sludge - 1,310 mg/l - 0.5 h
TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES: (Chronictoxicity). semi-static test NOEC - Daphnia magna (Water flea) - 14.6 mg/l -21 d.

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

SECTION 15 REGULATORY INFORMATION (Cont.)

SARA 313 COMPONENTS: This product is subject to reporting levels established by SARA Title III, Section 313.
PENNSYLVANIA RIGHT TO KNOW: Ammonium chloride
MASSACHUSETTS RIGHT TO KNOW: Ammonium chloride

SECTION 16 OTHER INFORMATION

CAS #: Chemical Abstracts Service Number
LD50: Lethal Dose, 50%
LC50: Lethal Concentration, 50%.
NOEC: No Observed Effect Concentration
ERC50: Effective Concentration (Growth Rate), 50%
IARC: International Agency for Research on Cancer
OSHA: Occupational Safety and Health Administration
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act

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.

DATE REVISED: 9/26
REVISION SUMMARY: Fax number was removed. Updated categories in section # 2, added abbreviations in section # 16. All other details in the document about the product remain unchanged. EHS – 09/26

Reviewed/Approved by EZ 9/26
EHS / SDS DEPT.