



# SAFETY DATA SHEET

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) (OSHA HCS)

## SECTION 1. IDENTIFICATION

Product name : Ammonium Chloride  
Product code : A2037

### Manufacturer or supplier's details

Company name of supplier : TCI America  
Address : 9211 N. Harborside Street Portland, OR 97203 U.S.A.  
Telephone : +1-800-4238616/+1-503-2831681  
Telefax : +1-888-5201075/+1-503-2831987  
E-mail address : sales-US@TCIchemicals.com

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-2867624

Transportation Emergencies: Chemtrec 24-Hour +1-800-4249300 (U.S.A.)/+1-703-5273887 (International)

### Recommended use of the chemical and restrictions on use

Recommended use : Use as laboratory reagent

---

## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral) : Category 4  
Eye irritation : Category 2A  
Specific target organ toxicity - repeated exposure : Category 1 (Systemic toxicity)  
Short-term (acute) aquatic hazard : Category 1  
Long-term (chronic) aquatic hazard : Category 1

### GHS label elements

Hazard pictograms :



Signal Word : Danger  
Hazard Statements : H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H372 Causes damage to organs (Systemic toxicity) through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
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 eye protection/ face protection.  
**Response:**  
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.  
P314 Get medical advice/ attention if you feel unwell.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P391 Collect spillage.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

**Components**

Chemical name	CAS RN	Concentration (% w/w)
Ammonium Chloride	12125-02-9	>= 90 - <= 100

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

If inhaled : Remove person to fresh air and keep comfortable for breathing. Get medical advice/ attention if you feel unwell.

In case of skin contact : Take off all contaminated clothing immediately. If on skin, rinse well with water. If skin irritation or rash occurs: Get medical advice/ attention.

In case of eye contact : Rinse with plenty of water. If easy to do, remove contact lens, if worn. If eye irritation persists: Get medical advice/ attention.

If swallowed : Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

Most important symptoms and effects, both acute and delayed : None known.

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Dry powder, Foam, Water spray, Carbon dioxide (CO2)

Specific hazards during fire fighting : No information available.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.

Special protective equipment for fire-fighters : Use personal protective equipment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Environmental precautions : Should not be released into the environment.

Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.

**SECTION 7. HANDLING AND STORAGE**

Technical measures : Prevent dispersion of dust.

Local/Total ventilation : Ensure adequate ventilation. Use a local exhaust ventilation.

Advice on safe handling : Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Wash hands and face thoroughly after handling.

Conditions for safe storage : Keep container tightly closed. Store in a cool and shaded area. Protect from moisture. Keep under inert gas.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

Components	CAS RN	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis

Ammonium Chloride	12125-02-9	TWA (Fumes)	10 mg/m3	ACGIH
		STEL (Fumes)	20 mg/m3	ACGIH
		TWA (Fumes)	10 mg/m3	NIOSH REL
		ST (Fumes)	20 mg/m3	NIOSH REL

**Engineering measures** : Install a closed system or local exhaust. Also install safety shower and eye bath.

**Personal protective equipment**

Respiratory protection : Dust mask  
 Hand protection : Protective gloves  
 Eye protection : Safety glasses, Face-shield  
 Skin and body protection : Protective suit

\*Use personal protective equipment (PPE) approved under appropriate government standards and follow local and national regulations.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Solid form  
 Color : white  
 Odor : No data available  
 Odor Threshold : No data available  
 pH : 4.0 - 5.5 (77 °F / 25 °C)  
 Concentration: 200 g/l  
 (as aqueous solution)  
 Melting point/freezing point : 640 °F / 338 °C  
 Boiling point/boiling range : 968 °F / 520 °C  
 Flash point : No data available  
 Flammability (solid, gas) : No data available  
 Upper explosion limit / Upper flammability limit : No data available  
 Lower explosion limit / Lower flammability limit : No data available  
 Vapor pressure : 0.13 kPa (320 °F / 160 °C)  
 Relative vapor density : No data available  
 Relative density : No data available  
 Solubility(ies)  
 Water solubility : 283 g/l soluble (77 °F / 25 °C)  
 Solubility in other solvents :  
 soluble : Methanol  
 insoluble : Ether Acetone  
 Partition coefficient: n-octanol/water : No data available  
 Autoignition temperature : No data available  
 Decomposition temperature : No data available  
 Viscosity  
 Viscosity, dynamic : No data available  
 Viscosity, kinematic : No data available  
 Molecular weight : 53.49 g/mol

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available  
 Chemical stability : Stable under normal conditions.  
 Possibility of hazardous reactions : None under normal processing.  
 Conditions to avoid : Exposure to moisture.  
 Incompatible materials : Oxidizing agents  
 Hazardous decomposition products : Nitrogen oxides (NOx), Hydrogen chloride gas

## SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

Acute oral toxicity : LD50 (Mouse): 1,300 mg/kg  
 LD50 (Rat): 1,650 mg/kg

Acute toxicity (other routes of administration) : LD50 (Rat): 30 mg/kg  
 Application Route: Intramuscular

LD50 (Mouse): 485 mg/kg  
Application Route: Intraperitoneal injection

<b>Skin corrosion/irritation</b>	:	No information available.
<b>Serious eye damage/eye irritation</b>	:	No information available.
Result	:	Eye irritation
<b>Respiratory or skin sensitization</b>	:	No information available.
<b>Germ cell mutagenicity</b>	:	No information available.
<b>Carcinogenicity</b>		
<b>IARC</b>		No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>OSHA</b>		No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
<b>NTP</b>		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<b>Reproductive toxicity</b>	:	No information available.
<b>STOT-single exposure</b>	:	No information available.
<b>STOT-repeated exposure</b>		
Target Organs	:	Systemic toxicity
Assessment	:	Causes damage to organs through prolonged or repeated exposure.
<b>Repeated dose toxicity</b>	:	No information available.
<b>Aspiration toxicity</b>	:	No information available.
<b>RTECS No.</b>	:	BP4550000 (Ammonium Chloride)

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Ecotoxicology Assessment

Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.

#### Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Other adverse effects

#### Product:

Ozone-Depletion Potential	:	Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
---------------------------	---	--

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues	:	Disposal in accordance with local and national regulations. Entrust disposal to a licensed waste disposal company.
Contaminated packaging	:	Disposal in accordance with local and national regulations. Before disposal of used container, remove contents completely.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

**IATA-DGR**

UN/ID No. : UN 3077  
 Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
 Class : 9  
 Packing group : III

**IMDG-Code**

UN number : UN 3077  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 Class : 9  
 Packing group : III  
 EmS Code : F-A, S-F  
 Marine pollutant : yes

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

UN/ID/NA number : UN 3077  
 Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
 Class : 9  
 Packing group : III  
 ERG Code : 171  
 Marine pollutant : no

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

Components	CAS RN	Component RQ (lbs)	Calculated product RQ (lbs)
Ammonium Chloride	12125-02-9	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:  
 Ammonium Chlo- 12125-02-9 >= 90 - <= 100 %  
 ride

**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Ammonium Chloride 12125-02-9 >= 90 - <= 100 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Ammonium Chloride 12125-02-9 >= 90 - <= 100 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

---

**US State Regulations****Massachusetts Right To Know**

Ammonium Chloride

12125-02-9

**Pennsylvania Right To Know**

Ammonium Chloride

12125-02-9

**Maine Chemicals of High Concern**

Product does not contain any listed chemicals

**Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

**Washington Chemicals of High Concern**

Product does not contain any listed chemicals

**California Permissible Exposure Limits for Chemical Contaminants**

Ammonium Chloride

12125-02-9

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

---

**SECTION 16. OTHER INFORMATION**

Revision Date : 10/08/2024

This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.