

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Ammonium Chloride 25% Solution  
CAS number 12125-02-9  
Synonyms N/A

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses General Laboratory Reagent.

#### 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC  
12501 Pauls Valley Road  
Austin, Texas 78737  
U.S.A.  
Telephone 512-668-9918  
Fax 512-886-4008

#### 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC  
International 1-352-323-3500 INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Oral Toxicity Category 4  
Eye Damage / Irritation Category 2

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Warning

Hazard statements

Harmful if swallowed.  
Causes serious eye irritation.

Precautionary statements

Prevention: Wash arms, hands, and face thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves and eye protection.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

Disposal: Dispose of contents in accordance with local, state, federal, and international regulations.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Data not available.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	Aqua; H <sub>2</sub> O	7732-18-5	70-80%
Ammonium chloride	Sal ammoniac; Salmiak	12125-02-9	20-30%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

**If inhaled** Not expected to require first aid. If necessary, remove to fresh air.

**In case of skin contact** May cause slight irritation.

**In case of eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause slight irritation.

**If swallowed** Call a POISON CENTER or physician if you feel unwell. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

#### 4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed. Causes serious eye irritation. Non-flammable, non-toxic, non-corrosive. Does not present any significant health hazards. Wash areas of contact with water. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** Use extinguishing media appropriate for surrounding fire.

**Unsuitable extinguishing media** No information available.

#### 5.2 Specific hazards arising from the substance or mixture

Not considered to be a fire or explosion hazard.

#### 5.3 Special protective equipment and precautions for firefighters

Use protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

#### 5.4 Further information

**Flash Point** No information available.

**Autoignition Temperature** No information available.

##### Explosion limits

**Upper** No data available.

**Lower** No data available.

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

##### NFPA

Health	Flammability	Instability	Physical hazards
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1	0	0	N/A
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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective gloves and eye protection.

### 6.2 Environmental precautions

Liquid may be flushed to the sewer.

### 6.3 Methods and materials for containment and cleaning up

Absorb with suitable material (paper towels, etc.) and treat as normal refuse if local regulations allow. Always dispose of in accordance with local, state, and federal regulations.

### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Precautions on safe handling

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Protect from freezing and physical damage.

#### Incompatibilities

Strong oxidizing agents, strong acids, strong bases.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Component	Type	Value
Ammonium chloride	STEL	20 mg/m <sup>3</sup>
	TWA	10 mg/m <sup>3</sup>

#### Biological occupational exposure limits

No information available.

## 8.2 Exposure controls

### Appropriate engineering controls

No specific controls are needed. Normal room ventilation is adequate.

### Personal protective equipment

#### Eye/face protection

Wear eye protection. Safety glasses or goggles.

#### Skin protection

Wear protective gloves. Chemical resistant gloves.

#### Body Protection

Wear protective clothing and chemical-resistant gloves.

#### Respiratory protection

Normal room ventilation is adequate.

#### Control of environmental exposure

No information available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Data not available
Odor Threshold	Data not available
pH	Data not available
Melting Point/Range	Data not available
Boiling Point/Range	Approximately 100°C
Evaporation Rate	Data not available
Flammability (solid)	Data not available
Flammability or explosive limit	Data not available
Upper	
Lower	
Vapor Pressure	Data not available
Vapor Density	Data not available
Density	1.1
Solubility	Miscible
Partition coefficient; n-octanol/water	Data not available

Autoignition Temp	Data not available
Decomposition Temp	Data not available
Viscosity	Data not available
Molecular Formula	H4 Cl N
Molecular Weight	53.49 g/mol
VOC Content(%)	Data not available
Oxidizing properties	Data not available

## 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Stable under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions

Data not available.

### 10.4 Conditions to avoid

Incompatible materials.

### 10.5 Incompatible materials

Strong oxidizing agents, strong acids, strong bases.

### 10.6 Hazardous decomposition products

Will not occur.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium chloride	1650 mg/kg (Rat)	>2000 mg/kg	-

#### Skin corrosion/irritation

Not applicable.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

**Respiratory or skin sensitization**

Not applicable.

**Germ cell mutagenicity**

Not applicable.

**Carcinogenicity**

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed
Ammonium chloride	12125-02-9	Not listed	Not listed	Not listed	Not listed	Not listed

**Specific target organ toxicity - single exposure**

Not applicable.

**Specific target organ toxicity - repeated exposure**

Not applicable.

**Reproductive toxicity**

Not applicable.

**Chronic effects**

Not applicable.

**11.2 Additional Information**

Data not available.

**SECTION 12: Ecological information****12.1 Toxicity**

Product		Species	Test Results
Ammonium chloride	LC50	Cyprinus carpio	209 mg/L
	EC50	Water Flea	202 mg/L/24h

**12.2 Persistence and degradability**

Data not available.

**12.3 Bio accumulative potential**

Data not available.

**12.4 Mobility in soil**

Data not available.

**12.5 Results of PBT and vPvB assessment**

Data not available.

## 12.6 Endocrine disrupting properties

Data not available.

## 12.7 Other adverse effects

Data not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### SECTION 14: Transport information

**DOT (US)** Not regulated.

**IMDG** Not regulated.

**IATA** Not regulated.

### SECTION 15: Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not applicable.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Listed, Ammonium chloride (CAS #12125-02-9), RQ: 5000 lb.

**SARA 304 Emergency release notification**  
Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**  
**SARA 302 Extremely hazardous substance**  
Not listed.

**SARA 311/312 Hazardous**  
See Section 2 for more information.



**SARA 313 (TRI reporting)**

Listed, Ammonium chloride (CAS #12125-02-9).

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Clean Water Act (CWA) - Hazardous Substances**

Listed, Ammonium chloride (CAS #12125-02-9), RQ: 5000 lb.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

**US state regulations****US. Massachusetts RTK - Substance List**

Listed, Ammonium chloride (CAS #12125-02-9).

**US. New Jersey Worker and Community Right-to-Know Act**

Listed, Ammonium chloride (CAS #12125-02-9).

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed, Ammonium chloride (CAS #12125-02-9).

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

Issue date: 01/19/2024

Revision 1: 01/16/2025

**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.