

# SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name Ammonium Chloride

CAS number 12125-02-9

Synonyms Ammonium chloratum; Ammonium chloridum; Ammonium muriate

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

Identified uses Laboratory chemicals.

## 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
Serious Eye Damage/Eye Irritation Category 2

# 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Warning

Hazard statements Harmful if swallowed.

Causes serious eye irritation.

Precautionary statements

Prevention: Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear eye/face

protection.

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 advice/attention.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell. Rinse mouth.

Disposal: Dispose of contents/container to an approved waste disposal plant.

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

None identified.

## **SECTION 3: Composition/information on ingredients**

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Ammonium chloride	Ammonium chloratum; Ammonium chloridum; Ammonium muriate	12125-02-9	<=100%

## **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

#### General advice

If inhaled Remove to fresh air. If not breathing, give artificial respiration. Get medical

attention if symptoms occur.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. If skin

irritation persists, call a physician.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

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If swallowed Clean mouth with water and drink afterwards plenty of water. Get medical

attention if symptoms occur.

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

None reasonably foreseeable.

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

If symptoms persist, call a physician. Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media Adapt extinguishing media to the environment for

surrounding fires.

**Unsuitable extinguishing media** No information available.

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

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

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

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 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

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Health	Flammability	Instability	Physical hazards
2	0	1	N/A

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

## 6.2 Environmental precautions

Should not be released into the environment.

## 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

#### 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

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place. Store under an inert atmosphere. Protect from moisture.

#### Incompatibilities

Strong oxidizing agents. Strong acids. Silver nitrate. Strong reducing agents.

#### **SECTION 8: Exposure controls/personal protection**

## 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value	
Ammonium chlorido	(Vacated) TWA	10 mg/m3	

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Ammonium chionae		
Ammonium chionac		
	(Vacated) STFI	20 mg/m3
	(Vacated) OTEL	20 1119/1110

#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value
Ammonium chloride	TWA	10 mg/m3
	STEL	20 mg/m3

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Туре	Value
Ammonium chloride	TWA	10 mg/m3
	STEL	20 mg/m3

## **Biological occupational exposure limits**

No information available.

#### 8.2 Exposure controls

## Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

## Personal protective equipment

## **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tight sealing safety goggles.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Control of environmental exposure

No information available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

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Physical State Solid

Appearance Colorless to white

Odor Odorless

Odor Threshold No information available

pH 5 (10 %)

Melting Point/Range No information available Boiling Point/Range No information available

Evaporation Rate Not applicable

Flammability (solid) No information available

Flammability or explosive limit No data available

Upper

Lower

Vapor Pressure No information available

Vapor Density

Density

1530 kg/m³ (25 °C)

Solubility

37.2 g/100ml (20 °C)

Partition coefficient;

-4.37 (Estimated)

n-octanol/water

Autoignition Temp H4 Cl N
Decomposition Temp 338 °C

Viscosity Not applicable

Molecular Formula No information available

Molecular Weight 53.49 g/mol

VOC Content(%)

Oxidizing properties

No information available

No information available

# 9.2 Other safety information

No information available.

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Reacts violently with (some) halogens compounds: (increased) risk of fire/explosion.

#### 10.2 Chemical stability

Hygroscopic.

#### 10.3 Possibility of hazardous reactions

Contact with acids liberates toxic gas.

## 10.4 Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.

#### 10.5 Incompatible materials

Strong oxidizing agents. Strong acids. Silver nitrate. Strong reducing agents.

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# 10.6 Hazardous decomposition products

None under normal use conditions. Gaseous ammonia.

## **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	1410 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 3.6 mg/L (Rat) 4h

#### Skin corrosion/irritation

No information available.

## Serious eye damage/eye irritation

Irritating to eyes.

#### Respiratory or skin sensitization

No information available.

#### Germ cell mutagenicity

Mutagenic effects have occurred in experimental animals.

Carcinogenicity

- an emegernerty						
Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Ammonium chloride	12125-02-9	Not listed				

## Specific target organ toxicity - single exposure

None known.

## Specific target organ toxicity - repeated exposure

None known.

## Reproductive toxicity

No information available.

#### **Chronic effects**

Skin rash/inflammation. Red skin. Dry skin. Itching. AFTER INHALATION OF FUME: Respiratory difficulties.

#### 11.2 Additional Information

The toxicological properties have not been fully investigated.

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# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product		Species	Test Results
Ammonium chloride	LC50	Cyprinus carpio	209 mg/L/96h
	EC50	Water Flea	202 mg/L/24h

## 12.2 Persistence and degradability

Persistence is unlikely.

#### 12.3 Bio accumulative potential

No information available.

## 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

#### 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

No information 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.

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## 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)

Not regulated.

## 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.

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## **SECTION 16: Other information**

Issue date: 03/26/2012 Revision 1: 10/06/2023 Revision 2: 11/22/2024

## **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.

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