

Revision date 22-Jan-2024

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

# Revision Number 1

1. Identification	
Product identifier	
Product Name	Ammonium Chloride Granular, ACS
Other means of identification	
Product Code(s)	0445
Synonyms	Ammonium Muriate; Ammonium Chloratum; Ammonium Chloridum; Sal Ammonia; Salmiac
Recommended use of the chemica	al and restrictions on use
Recommended use	Industrial use Laboratory use Industrial Manufacturing (all)
Restrictions on use	No information available
Details of the supplier of the safet	y data sheet
<u>Supplier Address</u> Columbus Chemical Industries, I N4335 Temkin Rd. Columbus, WI 53925 USA Phone: (920) 623-2140 Fax: (920) 623-2577 www.columbuschemical.com	nc.
Emergency telephone number	
24 Hour Emergency Phone Number	er CHEMTREC: 1-800-424-9300 for US / 703-527-3887 outside US
Emergency Telephone	911
2. Hazard(s) identification	
Classification_	
	Cotogon ( 4
Acute toxicity - Oral Serious eye damage/eye irritation	Category 4 Category 2
<u>Hazards not otherwise classified (</u> Not applicable	HNOC)
Label elements	

Warning

# Hazard statements

H302 - Harmful if swallowed H319 - Causes serious eye irritation



# **Precautionary Statements - Prevention**

P264 - Wash face, hands and any exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P280 - Wear protective gloves/protective clothing/eye protection/face protection

# **Precautionary Statements - Response**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337 + P313 - If eye irritation persists: Get medical advice/attention P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P330 - Rinse mouth

### **Precautionary Statements - Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant

### Unknown acute toxicity

### Other information

May be harmful in contact with skin.

# 3. Composition/information on ingredients

### Substance

Synonyms

Ammonium Muriate; Ammonium Chloratum; Ammonium Chloridum; Sal Ammonia; Salmiac.

Chemical name	CAS No	Weight-%	Formula	Molecular Weight
Ammonium chloride	12125-02-9	>98	NH4CI	53.49 g/mol

# 4. First-aid measures

# **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	Wash skin with soap and water.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

Note to physicians	Treat symptomatically.
Indication of any immediate medi	cal attention and special treatment needed
Symptoms	May cause redness and tearing of the eyes. Burning sensation.
Most important symptoms and ef	fects, both acute and delayed
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).
	person. Call a physician.

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# 5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Explosion data Sensitivity to mechanical impac	ct None.
Sensitivity to static discharge	None.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Other information	Refer to protective measures listed in Sections 7 and 8.

### Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

# 7. Handling and storage

# Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

# Conditions for safe storage, including any incompatibilities

# Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

Remarks • Method

@ 50 g/L at 20.0 °C

None known

# 8. Exposure controls/personal protection

# Control parameters

### Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Ammonium chloride	STEL: 20 mg/m <sup>3</sup> fume TWA: 10 mg/m <sup>3</sup> fume	(vacated) TWA: 10 mg/m <sup>3</sup> fume (vacated) STEL: 20 mg/m <sup>3</sup> fume	TWA: 10 mg/m <sup>3</sup> fume STEL: 20 mg/m <sup>3</sup> fume

# Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields.
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

# 9. Physical and chemical properties

#### Information on basic physical and chemical properties **Physical state** Solid Appearance Crystalline Color White Odor No information available **Odor threshold** No information available Property Values pН 4.5 - 5.5 pH (as aqueous solution) No data available Melting point / freezing point No data available Initial boiling point and boiling No data available range Flash point No data available **Evaporation rate** No data available Flammability No data available Flammability Limit in Air Upper flammability or explosive No data available limits Lower flammability or explosive No data available

limits		
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	1.5300	None known
Water solubility	Soluble in water	None known
Solubility(ies)	Soluble in methanol	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	53.49 g/mol	
VOC content	No information available	
Liquid Density	No information available	
Bulk density	No information available	
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# 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

# Information on likely routes of exposure

# **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. May be harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).
Symptoms related to the physical, chemical and toxicological characteristics	
Symptoms	May cause redness and tearing of the eyes.

# Acute toxicity

# Numerical measures of toxicity

# Unknown acute toxicity

# **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Ammonium chloride	= 1650 mg/kg (Rat)	> 2000 mg/kg (Rat)	-	
Delayed and immediate effects	as well as chronic effects from	n short and long-term exposur	<u>e</u>	
Skin corrosion/irritation	May cause skin irritation.			
Serious eye damage/eye irritati	on Classification based on da	ata available for ingredients. Caus	ses serious eye irritation.	
Respiratory or skin sensitization	<b>n</b> No information available.			
Germ cell mutagenicity	No information available.			
Cerni cen indtagenicity	No information available.			
Carcinogenicity	No information available.			
Reproductive toxicity	No information available.			
STOT - single exposure	No information available.			
STOT - repeated exposure	No information available.			
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Target organ effects	Respiratory system, Eyes			
Aspiration hazard	No information available.	No information available.		
Other adverse effects	No information available.	No information available.		
Interactive effects	No information available.	No information available		

# 12. Ecological information

# Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ammonium chloride	-	LC50: =209mg/L (96h, Cyprinus carpio)	-	-

Persistence and degradability No information available.

Bioaccumulation	There is no data for this product.
Other adverse effects	No information available.

13. Disposal considerations				
Disposal methods				
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.			
Contaminated packaging	Do not reuse empty containers. Dispose of contents/containers in accordance with local regulations.			

14. Transport information	
DOT_ DOT Marine Pollutant	Not regulated No
TDG	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG_	Not regulated

# 15. Regulatory information

International Inventories	
TSCA	Complies.
DSL/NDSL	Complies.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**NZIOC** - New Zealand Inventory of Chemicals

# US Federal Regulations

# <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any

chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

# SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

# CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium chloride	5000 lb	-	-	Х

# **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Ammonium chloride	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

# US State Regulations

# California Proposition 65

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania	
Ammonium chloride	Х	Х	Х	

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other inform	nation						
NFPA HMIS	Health hazards 2 Health hazards 2	Flammability Flammability		Instability 0 Physical hazards	0	Special hazards - Personal protection	х
	reviations and acronym			et			
- <b>J</b>			ECTION				
TWA TW	VA (time-weighted averag	le) S	TEL	STEL (Short	Term	Exposure Limit)	
Ceiling Ma	aximum limit value	*		Skin designa	tion		
Agency for Toxic Subs U.S. Environmental Pr European Food Safety EPA (Environmental P Acute Exposure Guide U.S. Environmental Pr	rotection Agency) line Level(s) (AEGL(s)) otection Agency Federal l otection Agency High Pro	istry (ATSDR) ew Database Insecticide, Fungicic	de, and Roo	lenticide Act			

Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date	22-Jan-2024
Revision Note	No information available.
Disclaimer	

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**End of Safety Data Sheet**