# SAFETY DATA SHEET

Page E1 of E2

### Section 1

Identification

500 Greenview Court Vernon Hills, Illinois 60061-1862 Phone: (847) 968-5050

# CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory and industrial use only. Not for drug, food or household use.

Product AMMONIUM CHLORIDE	
Synonyms Ammonium Muriate ; Sal Ammoniac	
Section 2 Hazards identification	
Signal word: WARNING Pictograms: GHS07 Target organs: None known <b>GHS Classification:</b> Acute toxicity, oral (Category 4) Eye irritation (Category 2A) <b>GHS Label information: Hazard statement:</b> H302: Harmful if swallowed. H319: Causes serious eye irritation.	Precautionary statement: P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information on ingredients					
Chemical Name		CAS #	%	EINECS		
Ammonium chloride		12125-02-9	100%	235-186-4		
Section 4	First aid measures					

**INGESTION:** HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

### Section 5 Fire fighting measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Reacts violently with ammonium nitrate and potassium chlorate. This generates fire and explosion hazard. Vaporizes at temperatures of about 335°C (653°F) evolving fumes of nitrogen oxides, chloride ions and ammonia gas.

## Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

#### Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure controls / personal protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
	Ammonium chloride fume	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	None established	TWA: 10 ma/m <sup>3</sup> STEL: 20 ma/m <sup>3</sup>			

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator.							
Section 9	Physical and chemical pr	operties					
Odor: No odor. Odor threshold: Da pH: Data not availab Melting / Freezing p	le. <b>oint:</b> 520°C (968°F) mes @ 340°C (644°F)	Flammability Explosion lim Vapor pressur Vapor density Relative dens	ate ( = 1): Data not av (solid/gas): Data not av its: as NH <sub>3</sub> Lower: 1 re (mm Hg): Data not av (Air = 1): Data not ava ity (Specific gravity): 7 : Soluble in water.	vailable. 5% <b>Upper:</b> 28% available ailable	Auto-ignitie Decompos Viscosity: Molecular f		: Data not available <b>re:</b> Data not available. ıle.
Section 10	Stability and reactivity				1		
Chemical stability: Stable Hazardous polymerization: Will not occur.   Conditions to avoid: Somewhat hygroscopic. Has an acid reaction in aqueous solution, solid tends to lose ammonia and become more acid on exposure and in storage.   Incompatible materials: Oxidizing agents, acids, bases, lead and silver salts.   Hazardous decomposition products: Ammonia and hydrogen chloride.							
Section 11	Toxicological information	1					
Acute toxicity: Oral-rat LD50: 1,650 mg/kg Skin corrosion/irritation: Skin-rabbit - Slight irritant. Serious eye damage/irritation: Data not available Germ cell mutagenicity: Data not available Garcinogenity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: 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. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity. Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Potential health effects: Inhalation: Inhalation of dust or fume from heating may cause upper respiratory tract irritation, coughing, and choking sensation. Ingestion: Ingestion of large doses cause nausea, vomiting, acidosis, irritation of the mouth, esophagus and gastric system. Ingestion may result in low grade toxicity. Skin: Contact with skin causes irritation and/or dermatitis. Eyes: Contact with eyes causes irritation and/or visual impairment. Signs and symptoms of exposure: See Potential health effects above. Exercise appropriate procedures to minimize potential hazards.							
Section 12	Ecological information						
Toxicity to fish: Salmo clarki (fish, fresh water, marine), LC50 = 123.8 - 166.6 mg/L/96 hours   Toxicity to daphnia and other aquatic invertebrates: Artemia salina (Crustacea), EC50 = 28 mg/L/24 hours   Toxicity to algae: Dunaliella tertiolecta (Algae) EC40 = 21.3 mg/L/90 minutes   Persistence and degradability: No data available   Mobility in soil: No data available   PBT and vPvB assessment: No data available   Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.   Section 13 Disposal considerations   These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.							
Section 14	Transport information		,	3			1 3 7
UN/NA number: Hazard class: No Exceptions: Not	Not applicable ot applicableShip Pacl 2020applicable2020	pping name: 1 king group: N ) ERG Guide #		Reportable Qua	antity: No	Ma	arine pollutant: No
Section 15	Regulatory information	the enhydrous f	a la an tha Inventorie II. (				
A chemical is considered Compone	d to be listed if the CAS number for ant	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Ammonium chloride		Listed	5000 lbs (2270 kg)	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other information						
							ered by them and must make indepen-

dent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015