

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

formance through chemistry Issue date: 07/24/2006 Revision date: 05/21/2020

Supersedes: 11/02/2016

Version: 2.2

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SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Ammonium Chloride
CAS-No.	: 12125-02-9
Product code	: LC10972
Formula	: NH4CI
Synonyms	: amchlor / amchloride / ammonii chloridum / ammonium muriate / muriate of ammonia / sal ammoniac / salmiac
1.2. Recommended use and res	rictions on use
Use of the substance/mixture	: Pharmaceutical product: component Electrolyte Fertilizer Laboratory chemical Chemical raw material Explosive: additive Food industry: additive Veterinary medicine
Recommended use	: Laboratory chemicals
Restrictions on use	: Not for food, drug or household use
1.3. Supplier	-
LabChem, Inc. 1010 Jackson's Pointe Ct. Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com	1
1.4. Emergency telephone numl	Jer Carlos Ca
Emergency number	: CHEMTREC: 1-800-424-9300 or +1-703-741-5970
SECTION 2: Hazard(s) identifi 2.1. Classification of the substa GHS US classification Acute toxicity (oral) Category 4 H302 Full text of H statements : see section 1	nce or mixture Harmful if swallowed
2.2. GHS Label elements, includ	ing precautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Warning
Hazard statements (GHS US)	: H302 - Harmful if swallowed
Precautionary statements (GHS US)	 P264 - Wash exposed skin thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P330 - If swallowed, rinse mouth P501 - Dispose of contents/container to comply with local, state and federal regulations.
2.3. Other hazards which do not	result in classification
Other hazards not contributing to the classification	: None.
2.4. Unknown acute toxicity (GF	S US)
Not applicable	
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B.2. Mixtures Not applicable SECTION 4: First-aid measures SECTION 4: First-aid measures Enst-aid measures First-aid measures general : Check the vital functions. arrest: artificial respiration with labored breathing: ha Vomiting: prevent asphyx warming up). Keep watch physical strain. Dependin First-aid measures after inhalation : Remove the victim into fm : Rinse with water. Soap m medical advice. Take vict	on or oxygen. Cardiac arrest half-seated. Victim in shock: xia/aspiration pneumonia. F hing the victim. Give psyche ng on the victim's condition: resh air. Respiratory proble	t: perform on his ba Prevent co ological ai doctor/ho ms: consu (chemical)	GHS US classification Acute Tox. 4 (Oral), H302 rway and respiration. Respiratory resuscitation. Victim conscious ack with legs slightly raised. poling by covering the victim (no id. Keep the victim calm, avoid ospital. ult a doctor/medical service.) neutralizing agents without
Ammonium Chloride (Main constituent) Full text of hazard classes and H-statements : see section 16 3.2. Mixtures Not applicable SECTION 4: First-aid measures First-aid measures general First-aid measures general : Check the vital functions. arrest: artificial respiration with labored breathing: he Vomiting: prevent asphyx warming up). Keep watch physical strain. Dependin First-aid measures after inhalation : Remove the victim into fm First-aid measures after skin contact : Rinse with water. Soap m medical advice. Take vict	(CAS-No.) 12125-02-9 (CAS-No.)	100 lequate ai t: perform on his ba Prevent cc ological ai : doctor/ho ms: consu (chemical)	Acute Tox. 4 (Oral), H302 rway and respiration. Respiratory resuscitation. Victim conscious ack with legs slightly raised. poling by covering the victim (no id. Keep the victim calm, avoid ospital. ult a doctor/medical service.
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First-aid measures after skin contact : Rinse with water. Soap medical advice. Take vict	may be used. Do not apply	(chemical)	
medical advice. Take vict) neutralizing agents without
First aid massures ofter ave contest		0.0.0.0	
Continue rinsing. Do not	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists.		
vomiting. Do not apply (c Information Centre (www	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not apply (chemical) neutralizing agents without medical advice. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.		
4.2. Most important symptoms and effects (acute and delayed)			
Potential Adverse human health effects and symptoms : Harmful if swallowed. Not 2000 mg/kg). Causes ser		non-toxic	in contact with skin (LD50 skin >
Symptoms/effects after inhalation : AFTER INHALATION OF difficulties.	AFTER INHALATION OF DUST: Coughing. AFTER INHALATION OF FUME: Respiratory		
Symptoms/effects after skin contact : Red skin.			
Symptoms/effects after eye contact : Redness of the eye tissue	: Redness of the eye tissue. Irritation of the eye tissue.		
, , , , , , , , , , , , , , , , , , , ,	: AFTER ABSORPTION OF LARGE QUANTITIES: Change in the blood composition. Headache. Nausea. Vomiting. Mental confusion.		
Symptoms/effects upon intravenous : No effects known. administration			
Chronic symptoms : Skin rash/inflammation. R Respiratory difficulties.	Red skin. Dry skin. Itching.	AFTER IN	NHALATION OF FUME:
4.3. Immediate medical attention and special treatment, if necessar	ry		

SECTION 5: Fire-figh	ting measures		
5.1. Suitable (and un	Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	Adapt extinguishing media to the environment for surrounding fires.		
5.2. Specific hazards	Specific hazards arising from the chemical		
Fire hazard	 DIRECT FIRE HAZARD. Non combustible. INDIRECT FIRE HAZARD. Reactions involving a fire hazard: see "Reactivity Hazard". 		
Explosion hazard	: INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard".		
5.3. Special protectiv	e equipment and precautions for fire-fighters		
Precautionary measures fire	 Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows. 		
Firefighting instructions	: Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.		
Protection during firefighting	: Heat/fire exposure: compressed air apparatus (EN 136 + EN 137).		

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SECTION C. Assidental values of the		
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Protective equipment	: Gloves (EN 374). Safety glasses (EN166). Protective clothing (EN 14605 or EN 13034). Dust cloud production: compressed air apparatus (EN 136 + EN 137). Reactivity hazard: compressed air apparatus (EN 136 + EN 137). Reactivity hazard: gas-tight suit (EN 943).	
Emergency procedures	: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.	
Measures in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.	
6.1.2. For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters.		
6.3. Methods and material for containment	t and cleaning up	
For containment	: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. If reacting: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water.	
Methods for cleaning up	: Stop dust cloud by humidifying. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.	
6.4. Reference to other sections		
No additional information available		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Keep container tightly closed.	
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.	
7.2. Conditions for safe storage, including	g any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container tightly closed.	
Incompatible products	: silver nitrate. Strong oxidizers.	
Heat-ignition	: KEEP SUBSTANCE AWAY FROM: heat sources.	
Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents. strong acids. (strong) bases. metals. halogens. water/moisture.	
Storage area	: Store in a cool area. Store in a dry area. Keep container in a well-ventilated place. Keep out of direct sunlight. Meet the legal requirements.	
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.	
Packaging materials	: MATERIAL TO AVOID: carbon steel. copper. aluminium.	
SECTION 8: Exposure controls/perso	nal protection	

8.1. Control param	eters		
Ammonium Chloride (12125-02-9)			
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³	
ACGIH	ACGIH STEL (mg/m ³)	20 mg/m ³	
NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³	
NIOSH	NIOSH REL (STEL) (mg/m ³)	20 mg/m ³	

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8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses. Dust production: dust mask with filter type P2.

Materials for protective clothing:

GIVE GOOD RESISTANCE: butyl rubber. neoprene. PVC

Hand protection:

Gloves

Eye protection:

Safety glasses (EN166). In case of dust production: protective goggles (EN 166)

Skin and body protection:

Protective clothing (EN 14605 or EN 13034)

Respiratory protection:

Dust production: dust mask with filter type P2

Personal protective equipment symbol(s):



Thermal hazard protection:

None necessary.

SECTION 9: Physical and chemical properties Information on basic physical and chemical properties 9.1. Physical state : Solid Appearance : Crystalline solid. Crystalline powder. Color Colourless to white ÷ : Odorless Odor Odor threshold : No data available pН : 5 (10 %) Melting point : Not applicable (decomposes) Freezing point : No data available Boiling point : Not applicable (decomposes) : Not applicable (solid) Flash point Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available Vapor pressure : Not applicable (solid) Relative vapor density at 20 °C : 1.8 : 1.53 (25 °C) Relative density Specific gravity / density : 1530 kg/m³ (25 °C) Molecular mass : 53.49 g/mol Soluble in water. Soluble in methanol. Soluble in ammonia. Soluble in glycerol. Solubility : Water: 37.2 g/100ml (20 °C) Ethanol: 2 g/100ml Log Pow : -4.37 (Estimated value) : > 400 °C (EU Method A.16: Relative Self-Ignition Temperature for Solids) Auto-ignition temperature 05/21/2020 EN (English US) 4/8

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Decomposition temperature	: 338 °C	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: Not applicable (solid)	
Explosion limits	: No data available	
Explosive properties	: No data available.	
Oxidizing properties	g properties : No data available.	
9.2. Other information		
Sublimation point	: 338 °C	
VOC content : Not applicable (inorganic)		
Other properties : Hygroscopic. May sublimate. Substance has acid reaction.		

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

Air contact. Direct sunlight. High temperature. Incompatible materials.

10.5. Incompatible materials

Oxidizing agent. Strong acids. silver nitrate. Strong reducing agents.

10.6. Hazardous decomposition products

Gaseous ammonia.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Harmful if swallowed. Not classified Not classified 	
Ammonium Chloride (12125-02-9)		
LD50 oral rat	1410 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	> 2000 mg/kg body weight (EU Method B.3: Acute toxicity (dermal), 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))	
LC50 inhalation rat (mg/l)	> 3.6 mg/l (4 h, Rat, Read-across, Inhalation)	
ATE US (oral)	1410 mg/kg body weight	
Skin corrosion/irritation Serious eye damage/irritation	 Not classified pH: 5 (10 %) Not classified pH: 5 (10 %) 	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified	
Reproductive toxicity STOT-single exposure	: Not classified : Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard Viscosity, kinematic	: Not classified : No data available	
Likely routes of exposure	: Inhalation. Skin and eye contact.	

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Potential Adverse human health effects and symptoms	: Harmful if swallowed. Not irritant to skin. Practically non-toxic in contact with skin (LD50 skin > 2000 mg/kg). Causes serious eye irritation.
Symptoms/effects after inhalation	: AFTER INHALATION OF DUST: Coughing. AFTER INHALATION OF FUME: Respiratory difficulties.
Symptoms/effects after skin contact	: Red skin.
Symptoms/effects after eye contact	: Redness of the eye tissue. Irritation of the eye tissue.
Symptoms/effects after ingestion	: AFTER ABSORPTION OF LARGE QUANTITIES: Change in the blood composition. Headache. Nausea. Vomiting. Mental confusion.
Symptoms/effects upon intravenous administration	: No effects known.
Chronic symptoms	: Skin rash/inflammation. Red skin. Dry skin. Itching. AFTER INHALATION OF FUME: Respiratory difficulties.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.	
Ecology - air : Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).		
Ecology - water	Slightly harmful to crustacea. Slightly harmful to fishes. In appropriate low concentrations inhibition of the degradation of activated sludge is not anticipated. Not harmful to algae.	
Ammonium Chloride (12125-02-9)		
LC50 fish 1	209 mg/l (APHA, 96 h, Cyprinus carpio, Semi-static system, Experimental value)	
EC50 Daphnia 1	101 mg/l (ASTM E729-80, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)	

2.2. Persistence and degradability		
Ammonium Chloride (12125-02-9)		
Persistence and degradability Biodegradability: not applicable.		
12.3. Bioaccumulative potential		
Ammonium Chloride (12125-02-9)		
Log Pow	-4.37 (Estimated value)	
Bioaccumulative potential Not bioaccumulative.		
12.4. Mobility in soil		
Ammonium Chloride (12125-02-9)		
Surface tension	No data available in the literature	
cology - soil No (test)data on mobility of the substance available.		

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste disposal recommendations	: Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.	
Additional information	: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.	

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information			
15.1. US Federal regulations			
Ammonium Chloride (12125-02-9)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313			
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb		
SARA Section 311/312 Hazard Classes	Health hazard - Acute toxicity (any route of exposure)		

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA No additional information available

EU-Regulations No additional information available

National regulations No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-phrases: see section 16:

H302	Harmful if swallowed	•
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	
NFPA fire hazard	 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. 	2 0
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	

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Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.
Personal protection	: E
	E - Safety glasses, Gloves, Dust respirator

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