

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/27/2014 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixture Product name : Ammonium Chloride, 0.1M (0.1N) Product code LC10975 1.2. Relevant identified uses of the substance or mixture and uses advised against : For laboratory and manufacturing use only. Use of the substance/mixture 1.3. Details of the supplier of the safety data sheet LabChem Inc Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com 1.4. **Emergency telephone number** Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887 SECTION 2: Hazards identification 2.1. Classification of the substance or mixture **GHS-US classification** Not classified 2.2. Label elements **GHS-US** labelling No labelling applicable Other hazards 2.3. Other hazards not contributing to the : None under normal conditions classification Unknown acute toxicity (GHS-US) 2.4. No data available SECTION 3: Composition/information on ingredients 3.1. Substance Not applicable Full text of H-phrases: see section 16 3.2. **Mixture Product identifier GHS-US classification** Name % Water (CAS No) 7732-18-5 99.47 Not classified Ammonium Chloride (CAS No) 12125-02-9 0.53 Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 **SECTION 4: First aid measures** 4.1. **Description of first aid measures** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice First-aid measures general 1 (show the label where possible). First-aid measures after inhalation Assure fresh air breathing. Allow the victim to rest. First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

- er skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed t warm water rinse.
- First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness
persist.First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

4.2. Most important symptoms and effects, both acute and delayed				
Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.				
4.3. Indication of any imm No additional information available	nediate medical attention and special treatment ble	needed		
SECTION 5: Firefighting	measures			
5.1. Extinguishing media				
Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.				
Unsuitable extinguishing media	: Do not use a heavy water stre	am.		
5.2. Special hazards aris	ing from the substance or mixture			
No additional information availal	ble			
5.3. Advice for firefighter	S			
Firefighting instructions		ling exposed containers. Exercise caution when fighting any e-fighting water to enter environment.		
Protection during firefighting		proper protective equipment, including respiratory protection.		
SECTION 6: Accidental	release measures			
	s, protective equipment and emergency proced	ures		
6.1.1. For non-emergency	personnel			
Protective equipment	: Safety glasses.			
Emergency procedures	: Evacuate unnecessary person	nel.		
6.1.2. For emergency resp	onders			
Protective equipment	: Equip cleanup crew with prope	Equip cleanup crew with proper protection.		
Emergency procedures	: Ventilate area.			
6.2. Environmental preca	utions			
Prevent entry to sewers and put	blic waters. Notify authorities if liquid enters sewers	or public waters.		
6.3. Methods and materia	al for containment and cleaning up			
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.				
6.4. Reference to other s	ections			
See Heading 8. Exposure contro	ols and personal protection.			
SECTION 7: Handling ar	nd storage			
7.1. Precautions for safe	handling			
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.				
7.2. Conditions for safe storage, including any incompatibilities				
Storage conditions	I	: Keep container closed when not in use.		
Incompatible products	-	Strong acids.		
Incompatible materials : Sources of ignition. Direct sunlight.				
7.3. Specific end use(s) No additional information available				
SECTION 8: Exposure controls/personal protection				
8.1. Control parameters				
Ammonium Chloride (12125-02-9) USA ACGIH ACGIH TWA (mg/m³) 10 mg/m³				
USA ACGIH	ACGIH STEL (mg/m ³)	20 mg/m ³		
		20 mg/m		

8.2. **Exposure controls**

Appropriate engineering controls

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

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

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Colour	: Colourless.
Odour	: None.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1 g/ml
Solubility	: Miscible with water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 1 cSt
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

Other information 9.2.

No additional information available

SECTIO	ON 10: Stability and reactivity				
10.1.	Reactivity				
	onal information available				
10.2.	Chemical stability				
Stable under normal conditions.					
10.3.	Possibility of hazardous reactions				
Not estat	Not established.				
10.4.	Conditions to avoid				
Direct su	nlight. Extremely high or low temperatures.				
10.5.	Incompatible materials				
Strong ad	cids.				
10.6.	Hazardous decomposition products				
Gaseous	ammonia.				
SECTIO	ON 11: Toxicological information				
11.1.	Information on toxicological effects				

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

Acute toxicity	: Not classified
Ammonium Chloride (12125-02-9)	
LD50 oral rat	1650 mg/kg (Rat)
Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Likely routes of exposure	: Skin and eyes contact

SECTION 12: Ecological information

12.1. Toxicity

Ammonium Chloride (12125-02-9)	
LC50 fishes 1	209 mg/l (96 h; Cyprinus carpio; Ammonia)
EC50 Daphnia 1	161 mg/l (48 h; Daphnia magna; Static system)
LC50 fish 2	1.51 - 2.1 mg/l (96 h; Pimephales promelas; Ammonia)
EC50 Daphnia 2	50 mg/l (96 h; Daphnia magna; Static system)
TLM fish 1	6 mg/l (96 h; Lepomis macrochirus)
Threshold limit algae 1	5 ppm (672 h; Potamogeton sp.; O2 evolution)
Threshold limit algae 2	< 70 mg/l (240 h; Algae; Nitrogen)
2.2. Persistence and degradability	
Ammonium Chloride, 0.1M (0.1N)	
Persistence and degradability	Not established.
Ammonium Chloride (12125-02-9)	
Persistence and degradability	Readily biodegradable in water.
Water (7732-18-5)	
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
Ammonium Chloride, 0.1M (0.1N)	
Bioaccumulative potential	Not established.
Ammonium Chloride (12125-02-9)	
Log Pow	-4.37 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable.
Water (7732-18-5)	
Bioaccumulative potential	Not established.
2.4. Mobility in soil	·
lo additional information available	
2.5. Other adverse effects	

Safety Data Sheet

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

SECTION 13: Disposal considerations					
13.1. Waste treatment methods					
Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.				
Ecology - waste materials	Avoid release to the environment.				
SECTION 14: Transport information					
In accordance with DOT					
No dangerous good in sense of transport regulation	ns				
Additional information					
Other information :	No supplementary information available.				
ADR					
Transport document description :					
Transport by sea					
No additional information available					
Air transport					
No additional information available					
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					
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	5000 lb				
Water (7732-18-5)					
Listed on the United States TSCA (Toxic Substances Control Act) inventory					
15.2. International regulations					
CANADA					
Ammonium Chloride, 0.1M (0.1N)					
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria				
Ammonium Chloride (12125-02-9)					
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects				
Water (7732-18-5)					
Water (7732-18-5) Listed on the Canadian DSL (Domestic Sustance WHMIS Classification	es List) inventory. Uncontrolled product according to WHMIS classification criteria				

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified

15.2.2. National regulations

١	N	ate	r (773	2-18	-5)	
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Not listed on the Canadian Ingredient Disclosure List

15.3. US State regulations

No additiona	l information	available
01/27/2014		

Safety Data Sheet

Other information

SECTION 16: Other information

Full text of H-phrases: see section 16:

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

: None.

Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4 Eye Irrit. 2A Serious eye damage/eye irritation, Category 2A H302 Harmful if swallowed H319 Causes serious eye irritation NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials. NFPA fire hazard : 0 - Materials that will not burn. NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, 0 and are not reactive with water. **HMIS III Rating**) Minimal Hazard - No significant risk to health Minimal Hazard

Health	: 0 Minimal Hazard
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: A

SDS US (GHS HazCom 2012)

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