Safety Data Sheet

SECT	TON 1: Identification	
1.1.	Product identifier	
Produc	t name	: Ammonium Chloride Solution
1.2.	Recommended use and restriction	s on use
Manufa	acturing	
1.3.	Supplier	
Zaclon	LLC	
2981 lr	ndependence Road	
Clevela	and, OH 44115	
T 800-3	356-7327	
1.4.	Emergency telephone number	
	ency number	: Chemtrec 1 800 424 9300
	-	
	ION 2: Hazard identification	
2.1.	Classification of the substance or r	nixture
	S/CAN classification	
	oxicity (oral), Category 4 s eye damage/eye irritation, Category 2	H302 H319
	t of H statements : see section 16	
2.2.	GHS Label elements, including pre	cautionary statements
	IS/CAN labelling	cautonary statements
	l pictograms	
Signal	word	: Warning
Hazard	statements	: H302 - Harmful if swallowed H319 - Causes serious eye irritation
Precau	tionary statements	<ul> <li>P264 - Wash thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P330 - Rinse mouth</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.</li> </ul>
2.3.	Other hazards	
No add	litional information available	
2.4.	Unknown acute toxicity	
No dat	a available	
SECT	<b>TON 3: Composition/information</b>	on on ingredients
3.1.	Substances	
Not ap	plicable	
2.0	Mixtures	

3.2. Mixtures

Name	Product identifier	%	GHS-CAN classification	GHS-US classification
Water	(CAS No) 7732-18-5	75 - 80	Not classified	Not classified
Ammonium chloride	(CAS No) 12125-02-9	20 - 25	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Comb. Dust	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Comb. Dust

Full text of classification categories and H statements : see section 16

Safety Data Sheet

SECTION 4: First-aid me	easures		
4.1. Description of first a	id measures		
First-aid measures after inhalation	on :	If large amounts are inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.	
First-aid measures after skin cor	ntact :	The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable.	
First-aid measures after eye cor	itact :	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.	
First-aid measures after ingestic	on :	If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.	
4.2. Most important sym	ptoms and effects,	, both acute and delayed	
Symptoms/injuries after inhalation	on :	None anticipated.	
Symptoms/injuries after skin cor	ntact :	Causes severe burns.	
Symptoms/injuries after eye con	tact :	Causes serious eye irritation.	
Symptoms/injuries after ingestio	n :	May be harmful if swallowed. May cause nausea, vomiting or acidosis if large amounts are ingested.	
4.3. Indication of any imm	nediate medical at	ttention and special treatment needed	
No additional information availab			
<b>SECTION 5: Firefighting</b>	measures		
5.1. Extinguishing media			
Suitable extinguishing media		As appropriate for combustibles in area (Foam, Dry Chemical, and CO2). Water spray will reduce irritating fumes and gases.	
Unsuitable extinguishing media	:	None.	
5.2. Special hazards aris	ing from the subst	tance or mixture	
Fire hazard		If evaporated and overheated, 260-315°C (500-600°F), hydrogen chloride and ammonia gases may be released.	
Explosion hazard	:	None known.	
5.3. Advice for firefighter			
Protection during firefighting	:	Firefighters should wear full protective gear.	
SECTION 6: Accidental release measures			
SECTION 6: Accidental	release measu	res	
		res pment and emergency procedures	
6.1. Personal precaution	s, protective equip		
6.1.Personal precaution6.1.1.For non-emergencyNo additional information available	s, protective equip personnel		
6.1.Personal precaution6.1.1.For non-emergency	s, protective equip personnel ble onders		
6.1.Personal precaution6.1.1.For non-emergencyNo additional information available6.1.2.For emergency response	s, protective equip personnel ble onders ble		
6.1.Personal precaution6.1.1.For non-emergencyNo additional information available6.1.2.For emergency responseNo additional information available	s, protective equip personnel ble onders ble autions		
6.1.Personal precaution6.1.1.For non-emergencyNo additional information available6.1.2.For emergency responseNo additional information available6.2.Environmental precaution	s, protective equip personnel ble onders ble autions nt.	oment and emergency procedures and cleaning up	
6.1.Personal precaution6.1.1.For non-emergencyNo additional information availab6.1.2.For emergency responseNo additional information availab6.2.Environmental precaAvoid release to the environmental	s, protective equip personnel ble onders ble autions nt. al for containment	and cleaning up Stop the flow of material, if this is without risk.	
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6.1.       Personal precaution         6.1.1.       For non-emergency         No additional information available       6.1.2.         6.1.2.       For emergency response         No additional information available       6.1.2.         6.1.2.       For emergency response         No additional information available       6.1.2.         6.1.2.       Environmental precaution         Avoid release to the environment       6.3.         Methods and materia       For containment         Methods for cleaning up       6.4.         Reference to other s       No additional information available         SECTION 7: Handling at       7.1.         Precautions for safe handling       7.2.         Conditions for safe s       Storage conditions	s, protective equip personnel ble onders ble autions nt. al for containment ections ble nd storage handling	and cleaning up Stop the flow of material, if this is without risk. Confine spill and soak up with absorbent. Place in an approved container and dispose in accordance with local, state and federal regulations. Avoid breathing fumes. Wash thoroughly after handling. any incompatibilities	
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6.1.       Personal precaution         6.1.1.       For non-emergency         No additional information available       6.1.2.         6.1.2.       For emergency response         No additional information available       6.1.2.         6.1.2.       For emergency response         No additional information available       6.1.2.         6.1.2.       Environmental precession         Avoid release to the environmer       6.3.         Methods and material       For containment         Methods for cleaning up       6.4.         6.4.       Reference to other s         No additional information available       SECTION 7: Handling at         7.1.       Precautions for safe         Precautions for safe handling       7.2.         Conditions for safe s       Storage conditions         7.3.       Specific end use(s)	s, protective equip personnel ble onders ble autions nt al for containment ections ble nd storage handling storage, including	and cleaning up Stop the flow of material, if this is without risk. Confine spill and soak up with absorbent. Place in an approved container and dispose in accordance with local, state and federal regulations. Avoid breathing fumes. Wash thoroughly after handling. any incompatibilities Store in a tightly closed container in a dry place.	
6.1.       Personal precaution         6.1.1.       For non-emergency         No additional information available       6.1.1.         6.1.2.       For emergency response         No additional information available       6.1.2.         6.1.2.       For emergency response         No additional information available       6.1.2.         6.1.2.       Environmental precession         Avoid release to the environmer       6.3.         Methods and material       For containment         Methods for cleaning up       6.4.         6.4.       Reference to other s         No additional information available       SECTION 7: Handling and the second state	s, protective equip personnel ble onders ble autions nt. al for containment ections ble nd storage handling storage, including ontrols/person	and cleaning up Stop the flow of material, if this is without risk. Confine spill and soak up with absorbent. Place in an approved container and dispose in accordance with local, state and federal regulations. Avoid breathing fumes. Wash thoroughly after handling. any incompatibilities Store in a tightly closed container in a dry place.	

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Ammonium chloride (12125-02-9)			
USA - ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	20 mg/m³ (fume)	
Canada (Quebec)	VECD (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (fume)	
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	10 mg/m³ (fume)	
Alberta	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (fume)	
Alberta	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (fume)	
British Columbia	OEL STEL (mg/m <sup>3</sup> )	20 mg/m³ (fume)	
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (fume)	
Manitoba	OEL STEL (mg/m <sup>3</sup> )	20 mg/m³ (fume)	
Manitoba	OEL TWA (mg/m³)	10 mg/m³ (fume)	
New Brunswick	OEL STEL (mg/m³)	20 mg/m³ (fume)	
New Brunswick	OEL TWA (mg/m³)	10 mg/m³ (fume)	
New Foundland & Labrador	OEL STEL (mg/m <sup>3</sup> )	20 mg/m³ (fume)	
New Foundland & Labrador	OEL TWA (mg/m³)	10 mg/m³ (fume)	
Nova Scotia	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (fume)	
Nova Scotia	OEL TWA (mg/m³)	10 mg/m³ (fume)	
Nunavut	OEL STEL (mg/m <sup>3</sup> )	20 mg/m³ (fume)	
Nunavut	OEL TWA (mg/m³)	10 mg/m³ (fume)	
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (fume)	
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³ (fume)	
Ontario	OEL STEL (mg/m <sup>3</sup> )	20 mg/m³ (fume)	
Ontario	OEL TWA (mg/m³)	10 mg/m³ (fume)	
Prince Edward Island	OEL STEL (mg/m <sup>3</sup> )	20 mg/m³ (fume)	
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m³ (fume)	
Saskatchewan	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (fume)	
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³ (fume)	
Yukon	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (fume)	
Yukon	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (fume)	

#### 8.2. Exposure controls

Appropriate engineering controls	: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits	
Hand protection	: None required during normal handling conditions.	
Eye protection	: Use safety glasses.	
Skin and body protection	: Wear suitable working clothes.	
Respiratory protection	: If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.	

#### SECTION 9: Physical and chemical properties

9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid
Appearance	: Clear
Color	: White
Odor	: Odorless.
Odor threshold	: No data available
рН	: 3-6
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: 10°F (for 20%)/50°F (for 25%)
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
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
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Specific gravity	: 1.058 - 1.073
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	tional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
Will not	occur.
10.4.	Conditions to avoid
None	
10.5.	Incompatible materials
Incomp	atible with alkalis, strong oxidants, potassium chlorate.
10.6.	Hazardous decomposition products

If evaporated, will decompose with heat, releasing hydrogen chloride and ammonia gases which partially reform ammonium chloride as a dust cloud or smoke.

SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Harmful if swallowed.
	Higher ingestion exposures may lead to non-specific discomfort, such as nausea or vomiting; or profound acidosis.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Ammonium Chloride Solution	
ATE (oral)	500.000 mg/kg bodyweight
Weter (7700.40.5)	
Water (7732-18-5)	- 00 ml/m
LD50 oral rat	> 90 ml/kg
Ammonium chloride (12125-02-9)	
LD50 oral rat	1650 mg/kg
Skin corrosion/irritation	: Not classified
	pH: 3 - 6
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: 3 - 6
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
	Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive with positive results in some studies and negative results in others.

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i         Specific target organ toxicity (repeated exposure)       :         Aspiration hazard       :         SECTION 12: Ecological information         12.1. Toxicity         Acute aquatic toxicity       :         Chronic aquatic toxicity       :         Ammonium chloride (12125-02-9)         LC50 fish 1       :         12.2. Persistence and degradability         No additional information available         12.3. Bioaccumulative potential	The compound is not a skin irritant and is not an eye irritant in animals. Toxic effects described in animals from short exposures by ingestion include effects on acid-base balance and water metabolism. Toxic effects in animals occurring only with inhalation exposures are lower respiratory irritation. Not classified Not classified
exposure)       Aspiration hazard       : I         SECTION 12: Ecological information         12.1. Toxicity         Acute aquatic toxicity       : I         Chronic aquatic toxicity       : I         Ammonium chloride (12125-02-9)       : I         LC50 fish 1       : 2         12.2. Persistence and degradability       : I         No additional information available       : I         12.3. Bioaccumulative potential       : I	Not classified
SECTION 12: Ecological information         12.1. Toxicity         Acute aquatic toxicity         Chronic aquatic toxicity         Chronic aquatic toxicity         Image: Amonium chloride (12125-02-9)         LC50 fish 1         12.2. Persistence and degradability         No additional information available         12.3. Bioaccumulative potential	
<b>12.1.</b> Toxicity         Acute aquatic toxicity       : I         Chronic aquatic toxicity       : I <b>Ammonium chloride (12125-02-9)</b> LC50 fish 1       2 <b>12.2.</b> Persistence and degradability         No additional information available <b>12.3.</b> Bioaccumulative potential	Not classified
12.1. Toxicity         Acute aquatic toxicity       : I         Chronic aquatic toxicity       : I         Ammonium chloride (12125-02-9)       : I         LC50 fish 1       2         12.2. Persistence and degradability       : I         No additional information available       : I         12.3. Bioaccumulative potential       : I	Not classified
Acute aquatic toxicity       : I         Chronic aquatic toxicity       : I         Ammonium chloride (12125-02-9)       : I         LC50 fish 1       : 2         12.2.       Persistence and degradability         No additional information available       : I         12.3.       Bioaccumulative potential	Not classified
Chronic aquatic toxicity       : I         Ammonium chloride (12125-02-9)       2         LC50 fish 1       2         12.2.       Persistence and degradability         No additional information available       1         12.3.       Bioaccumulative potential	
LC50 fish 1       2         12.2.       Persistence and degradability         No additional information available         12.3.       Bioaccumulative potential	Not classified
Persistence and degradability         No additional information available         12.3.       Bioaccumulative potential	
No additional information available 12.3. Bioaccumulative potential	209 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static])
12.3. Bioaccumulative potential	
Ne edult de cel la ferra e de cerette bla	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Ozone : 1	Not classified
SECTION 13: Disposal considerations	
13.1. Disposal methods	

regulations.

SECTION 14: Transport information

14.1. Basic shipping description
In accordance with TDG

TDG
UN-No. (TDG) : UN3082
Packing group : III - Minor Danger

:

Packing group: III - Minor DangerTDG Primary Hazard Classes: 9 - Class 9 - Miscellaneous Products, Substances or OrganismsTransport document description: UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains<br/>Ammonium Chloride), 9, IIIProper Shipping Name (TDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br/>Contains Ammonium Chloride

Hazard labels (TDG)

Product/Packaging disposal recommendations

: 9 - Miscellaneous dangerous substances and articles

Dispose of contents/container in accordance with local/regional/national/international



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TDG Special Provisions Explosive Limit and Limited Quantity Index Excepted quantities (TDG)	<ul> <li>16 - 1) The technical name of the most dangerous substance related to the primary class must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(i)(A) of Part 3, Documentation. The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4, Dangerous Goods Safety Marks.</li> <li>2) subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical: a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act".</li> <li>99 - (1) Mixtures of solids that are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, may be handled, offered for transport or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means containment and during transport. (2) These Regulations, except for Part 1 (Comig into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLI</li></ul>
14.2. Transport information/DOT	
DOT	
	: UN3082
DOT NA no. UN-No.(DOT)	: 3082
Packing group (DOT) DOT Symbols	: III - Minor Danger
•	: G - Identifies PSN requiring a technical name
Transport document description	: UN3082 Environmentally hazardous substances, liquid, n.o.s. (Contains Ammonium Chloride), 9, III
Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s. (Contains Ammonium Chloride)
Contains Statement Field Selection (DOT)	
Class (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Division (DOT)	: 9
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)
Marine pollutant	: • Marine pollutant
Dangerous for the environment	: No

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DOT Special Provisions (49 CFR 172.102)	<ul> <li>8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.</li> <li>146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.</li> <li>173 - An appropriate generic entry may be used for this material.</li> <li>335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leakproof when used as bulk packaging.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T4 - 2.65 178.274(d)(2) Normal</li></ul>
	MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
	: 203
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 241
DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail	
(49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
14.3. Air and sea transport	
IMDG	
UN-No. (IMDG)	: 3082
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	: III - substances presenting low danger
ΙΑΤΑ	
UN-No. (IATA)	: 3082
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	
15.1. Canada National regulations	
Water (7732-18-5)	
Listed on the Canadian DSL (Domestic Sustand	ces List)
Ammonium chloride (12125-02-9)	
Listed on the Canadian DSL (Domestic Sustand	ces List)
15.2. US Federal regulations	
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Subst	ances Control Act) inventory
Ammonium chloride (12125-02-9)	
Listed on the United States TSCA (Toxic Subst	ances Control Act) inventory

EN (English)

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#### 15.3. US State regulations

#### Ammonium chloride (12125-02-9)

- U.S. Massachusetts Right To Know List U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

#### **SECTION 16: Other information**

#### Full text of H-statements:

	H302	Harmful if swallowed
	H319	Causes serious eye irritation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product