

Barker Industries, Inc.

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MATERIAL SAFETY DATA SHEET

Date Issued: 1/08/08

Section 1 – Product and Company Information

Product Name

**AMMONIUM CHLORIDE,
A.C.S. REAGENT**

Product Number

Company
Street Address
City, State, Zip, Country
Technical Phone:
Emergency Phone:
Fax:

Barker Industries
220 Crompton Street
Charlotte NC 28273 USA
(704) 391-1023
Chemtrec (1-800-424-9300)
704-393-0464

Section 2 – Composition/Information on Ingredients

Substance Name	CAS #	SARA 313
Ammonium Chloride	12125-02-9	No

Section 3 – Hazard Identification

EMERGENCY OVERVIEW:

Harmful.
Harmful if swallowed. Irritating to respiratory system and skin.
Risk of serious damage to eyes.

HMIS RATING:

HEALTH: 2
FLAMMABILITY: 0
REACTIVITY: 1
SPECIAL HAZARD (S):

Barker Industries	Document No: BAR.QS.10.2000.188	Revision Date: 1/08/08
Name: Ammonium Chloride	Revision Number: 0	Page 1 of 8

NFPA RATING

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 1

SPECIAL HAZARDS (S):

For additional information on toxicity, please refer to Section 11.

Section 4 – First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If breathing becomes difficult, give oxygen & call a physician.

DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 – Fire Fighting Measures

FLASH POINT

N/A

AUTOIGNITION TEMP

N/A

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard (s): Emits toxic fumes under fire conditions.

Section 6 – Accidental Release Measures

Barker Industries	Document No: BAR.QS.10.2000.188	Revision Date: 1/08/08
Name: Ammonium Chloride	Revision Number: 0	Page 2 of 8

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

PROCEDURE (S) OF PERSONAL PRECAUTIONS (S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 – Handling and Storage

HANDLING

User Exposure: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Suitable: Keep tightly closed.

SPECIAL REQUIREMENTS

Hygroscopic.

Section 8 – Exposure Controls / PPE

ENGINEERING CONTROLS

Mechanical exhaust required. Safety shower and eye bath.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Government approved respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Remove and wash contaminated clothing promptly. Discard contaminated shoes.

EXPOSURE LIMITS, RTECS

Country	Source	Type	Value
USA	OEL	TWA	10 MG/M3
USA	NIOSH	TWA	10 MG/M3
		STEL	20MG/M3

Barker Industries	Document No: BAR.QS.10.2000.188	Revision Date: 1/08/08
Name: Ammonium Chloride	Revision Number: 0	Page 3 of 8

EXPOSURE LIMITS

Country	Source	Type	Value
Poland		NDS	10 MG/M3
Poland		NDSch	20 MG/M3
Poland		NDSP	-

Section 9 – Physical and Chemical Properties

Appearance Physical State: Solid

Property	Value	At Temperature or Pressure
Molecular Weight	53.49 AMU	
pH	4.5 - 5.5	20 °C Concentration: 50 g/l
BP/BP Range	N/A	
MP/MP Range	340 °C	
Freezing Point	N/A	
Vapor Pressure	1 mmHg	160.4 °C
Vapor Density	1.9 g/l	
Saturated Vapor Conc.	N/A	
SG/Density	1 g/cm ³	
Bulk Density	500 kg/l	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	N/A	
Decomposition Temp.	N/A	
Flash Point	N/A	
Explosion Limits	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Refractive Index	N/A	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility	Solubility in Water:Soluble.	

Barker Industries	Document No: BAR.QS.10.2000.188	Revision Date: 1/08/08
Name: Ammonium Chloride	Revision Number: 0	Page 4 of 8

Section 10 – Stability and Reactivity

STABILITY

Stable: Stable.

Conditions to Avoid: Moisture.

Materials to Avoid: Strong oxidizing agents, Strong bases, Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Hydrogen chloride gas, Ammonia.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

Section 11 – Toxicological Information

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes severe eye irritation.

Inhalation: May be harmful if inhaled. Material is irritating to the tissue of the mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

TOXICITY DATA

Oral

Infant

2000 mg/kg

LDLO

Remarks: Cardiac:Other changes.

Oral

Rat

1650 mg/kg

LD50

Intramuscular

Rat

Barker Industries	Document No: BAR.QS.10.2000.188	Revision Date: 1/08/08
Name: Ammonium Chloride	Revision Number: 0	Page 5 of 8

30 MG/KG
LD50

Oral
Mouse
1300 mg/kg
LD50

Intraperitoneal
Mouse
485 MG/KG
LD50

Intravenous
Mouse
358 MG/KG
LD50

Remarks: Behavioral:Convulsions or effect on seizure threshold. Behavioral:Coma. Lungs, Thorax, or Respiration:Respiratory stimulation.

IRRITATION DATA

Eyes
Rabbit
500 mg
24H
Remarks: Mild irritation effect

Eyes
Rabbit
100 mg
Remarks: Severe irritation effect

CHRONIC EXPOSURE - MUTAGEN

Species: Hamster
Dose: 400 MG/L
Cell Type: fibroblast
Mutation test: Cytogenetic analysis

Section 12 – Ecological Information

Not Available

Section 13 – Disposal Considerations

Barker Industries	Document No: BAR.QS.10.2000.188	Revision Date: 1/08/08
Name: Ammonium Chloride	Revision Number: 0	Page 6 of 8

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of in accordance with all federal, state and local regulations.

Section 14 – Transport Information

DOT

Proper Shipping Name: Environmentally hazardous

UN#: 3077

Class: 9

Packing Group: Packing Group III

Hazard Label: Class 9

PIH: Not PIH

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 – Regulatory Information

EU DIRECTIVES CLASSIFICATION

Symbol of Danger: Xn

Indication of Danger: Harmful.

R: 22-36

Risk Statements: Harmful if swallowed. Irritating to eyes.

S: 22

Safety Statements: Do not breathe dust

EU ADDITIONAL CLASSIFICATION

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Harmful.

Risk Statements: Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes.

Safety Statements: Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

Barker Industries	Document No: BAR.QS.10.2000.188	Revision Date: 1/08/08
Name: Ammonium Chloride	Revision Number: 0	Page 7 of 8

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

Section 16 – Other Information

For R&D use only. Not for drug, household or other uses.

Barker Industries provides this information in good faith. It is believed to be correct but does not claim to be all-inclusive and shall be used only as a guide. No warranty, either expressed or implied is given for the information contained in this report. Barker Industries, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Barker Industries	Document No: BAR.QS.10.2000.188	Revision Date: 1/08/08
Name: Ammonium Chloride	Revision Number: 0	Page 8 of 8