



JLM Industries, Inc.

# AMMONIUM CHLORIDE TREATED WITH ACA, BAGS

Product: US349

Revision date: 2003/06/02

Distributed By:  
SAL Chemical  
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- Section 1 : PRODUCT AND COMPANY IDENTIFICATION
- Section 2 : INGREDIENT INFORMATION
- Section 3 : HAZARD IDENTIFICATION
- Section 4 : FIRST AID MEASURES
- Section 5 : FIRE FIGHTING MEASURES
- Section 6 : ACCIDENTAL RELEASE MEASURES
- Section 7 : HANDLING AND STORAGE
- Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION
- Section 9 : PHYSICAL AND CHEMICAL PROPERTIES
- Section 10 : STABILITY AND REACTIVITY
- Section 11 : TOXICOLOGICAL INFORMATION
- Section 12 : ECOLOGICAL INFORMATION
- Section 13 : DISPOSAL CONSIDERATIONS
- Section 14 : TRANSPORT INFORMATION
- Section 15 : REGULATORY INFORMATION
- Section 16 : OTHER INFORMATION

## Section 1 : PRODUCT AND COMPANY IDENTIFICATION

**Chemical family:** Chlorides.

**Material use:** Not available.

**Supplier:** JLM Marketing, Inc.  
8675 Hidden Parkway  
Tampa, Fl 33637  
Phone: 813-632-3300  
Fax: 813-632-3301.

**Manufacturer emergency phone number:** Chemtrec\* 800-424-9300.

## Section 2 : INGREDIENT INFORMATION

C.A.S.....	CONCENTRATION %.....	Ingredient Name.....	T.L.V. ....	LD/50 .....	LC/50 .....
12125-02-9	90-100	AMMONIUM CHLORIDE	10 MG/M3 (FUME)	1650 MG/KG RAT ORAL  1300 MG/KG MOUSE ORAL	NOT AVAILABLE

## Section 3 : HAZARD IDENTIFICATION

**Emergency overview:** Warning!

White Powder with no odor. Irritant to skin, eyes and respiratory tract. May be harmful if swallowed. Reacts violently and explosively with incompatible materials.

**Route of entry:** Skin contact, eye contact, inhalation and ingestion.

**Effects of acute exposure**

**Eye contact:** May cause redness and pain.  
Irritant.

**Skin contact:** Irritant.  
May cause itching.  
May cause redness and pain.

**Inhalation:** Shortness of breath/laboured breathing.  
Irritation of the respiratory tract.  
Coughing.

**Ingestion:** Nausea, vomiting and diarrhea.  
Gastrointestinal irritation.

**Effects of chronic exposure:** None known.

**Medical conditions aggravated by exposure:** Not available.

**Carcinogenic effects:** Not listed as a carcinogen.

**Target organs:** Not available.

#### Section 4 : FIRST AID MEASURES

**Skin contact:** Remove contaminated clothing.  
Get immediate medical attention.  
Wash with water for at least 15 minutes.

**Eye contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical attention.

**Inhalation:** Remove victim to fresh air. If not breathing, qualified personnel should administer artificial respiration. Get medical attention.  
If breathing is difficult, administer oxygen.

**Ingestion:** Get medical attention immediately.  
Never give anything by mouth to an unconscious person.  
Vomiting should only be induced under the direction of a physician.

**Additional information:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

**Note to physician:** No specific antidote, treat symptomatically.

#### Section 5 : FIRE FIGHTING MEASURES

**Flammability:** Not flammable.

**Conditions of flammability:** 16% to 25% ammonia in air mixtures are flammable.

**Extinguishing media:** Suitable for surrounding fire.

**Special procedures:** Self-contained breathing apparatus required.  
Firefighters should wear the usual protective gear.  
Use water spray to cool fire exposed containers.

**Auto-ignition temperature:** Not available.

**Flash point (°C), method:** None

**Lower flammability limit (% vol):** Not available.

**Upper flammability limit (% vol):** Not available.

#### Explosion Data

**Sensitivity to static discharge:** Not available.

**Sensitivity to mechanical impact:** Not available.

**Hazardous combustion products:** None known.

**Rate of burning:** Not available.

**Explosive power:** Explosion hazard when in contact with incompatible substances.

#### Section 6 : ACCIDENTAL RELEASE MEASURES

**Leak/Spill:** Ventilate area.  
Wear appropriate protective equipment.  
Vacuum or wet sweep.  
Reclaim clean material.  
Place in appropriate container for disposal.

#### Section 7 : HANDLING AND STORAGE

**Handling procedures and equipment:** Protect against physical damage.  
Keep away from heat, sparks, and open flame.  
Use adequate ventilation.  
Refer to container labels.  
Empty containers containing residue may cause a hazard.  
Destroy or thoroughly clean contaminated shoes.  
Wear suitable protective clothing.  
Launder contaminated clothing prior to reuse.  
Keep away from incompatible materials.

**Storage requirements:** Store in a cool and well ventilated area.  
Store away from incompatible materials.  
Keep containers closed when not in use.  
Store in a cool, dry and well ventilated area.

#### Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Precautionary Measures

**Gloves/Type:**



Impervious gloves.

**Respiratory/Type:**



For emergencies, a positive pressure, full-facepiece scba should be used.



Use an approved respirator for oil mists or fumes.

Warning: air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Use a half facepiece particulate respirator (NIOSH type N95 or better filters) for up to ten times the exposure limit; full facepiece particulate respirator (NIOSH type N100 filters) for up to 50 times the exposure limit.

The specific respirator selected must be based on contamination levels found in the work place, must not exceed the working limits of the respirator and be jointly approved by the national institute for occupational safety and health and the mine safety and health administration (NIOSH-MSHA).

**Eye/Type:**



Splash proof chemical safety goggles or face shield.

**Footwear/Type:**



Impervious boots.

**Clothing/Type:** As required to prevent skin contact.  
Impervious clothing.

**Other/Type:** Eye wash facility should be in close proximity.  
Emergency shower should be in close proximity.

**Ventilation requirements:** Local exhaust and mechanical ventilation to maintain exposure below TLV.

**Exposure limit of material:** 10 mg/m<sup>3</sup> (TWA)  
20 mg/m<sup>3</sup> (STEL) Fume

## Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid

**Appearance & odor:** Odourless.  
White powder.

**Odor threshold (ppm):** Not applicable.

**Vapour pressure (mmHg):** 1.0 @ 160°C (320°F)

**Vapour density (air=1):** 1.9

**Volatiles (%)**

**By volume:** 0 @ 21°C (70°F)

**By weight:** Not available.

**Evaporation rate  
(butyl acetate = 1):** Not available.

**Boiling point (°C):** 520°C (968°F)

**Freezing point (°C):** (melting point).  
338°C (640°F)

**pH:** 5.5 (1% aqueous solution)  
5.1 (3% aqueous solution)  
5.0 (10% aqueous solution)

**Specific gravity @ 20 °C:** 1.53

**Solubility in water (%):** 29.7 g/100 g @ 0°C (32°F)

**Coefficient of water\oil dist.:** Not available.

## Section 10 : STABILITY AND REACTIVITY

**Chemical stability:** Product is stable under normal handling and storage conditions.

**Conditions of instability:** Violent reaction upon contact with incompatible substances.  
At fire temperatures, ammonium chloride begins to corrode metals and may dissociate into ammonia and hydrogen chloride.

**Hazardous polymerization:** Will not occur.

**Incompatible substances:** Strong bases.  
Potassium chlorate.  
Nitrates.  
Ammonium nitrate.  
Bromine trifluoride.

Ammonium compounds.  
Concentrated acids.  
Silver salts.  
Iodine heptafluoride.  
Hydrogen cyanide.

**Hazardous decomposition products:** Ammonia.  
Hydrogen chloride.  
Nitrogen trichloride.

#### Section 11 : TOXICOLOGICAL INFORMATION

**LD50 of product, species & route:** See hazardous ingredients section.

**LC50 of product, species & route:** Not available.

**Sensitization to product:** Not available.

**Reproductive effects:** Not available.

**Teratogenicity:** Not available.

**Mutagenicity:** Not available.

**Synergistic materials:** Not available.

#### Section 12 : ECOLOGICAL INFORMATION

**Environmental toxicity:** No data at this time.

**Environmental fate:** No data at this time.

#### Section 13 : DISPOSAL CONSIDERATIONS

**Waste disposal:** In accordance with local and federal regulations.

#### Section 14 : TRANSPORT INFORMATION

**D.O.T. CLASSIFICATION:** Not regulated.

**Special shipping information:** Not regulated.

#### Section 15 : REGULATORY INFORMATION

**TSCA inventory:** Appears.

**SARA Section 313:** Not regulated.

**SARA hazard categories** Immediate (Acute) Health Hazard: Yes.

**sections 311/312:** Delayed (Chronic) Health Hazard: No.

Fire Hazard: No.

Reactive: No.

**CERCLA reportable quantity:** Ammonium chloride (12125-02-9) - 5000 lbs.

#### NFPA

**Health Hazard:** 2

**Flammability:** 0

**Physical hazard:** 0

**CA Proposition 65:** None

#### Section 16 : OTHER INFORMATION

**Supplier MSDS date:** 2003/06/02

**Data prepared by:** Conform-Action Data Systems  
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