

MATERIAL SAFETY DATA SHEET

Item #22

SECTION I

PRODUCT IDENTIFICATION

Trade Name: Austin Product: AMMONIA Variation: Clear

Chemical Name & Synonyms: Ammonium hydroxide solution / ammonia
 Chemical Family: Ammonia hydroxide / Aqua ammonia Formula: 4% of NH₄OH
 DOT Proper Shipping Name: Ammonium hydroxide containing less than 12% NH₃
 DOT Hazard Class: ORM-A NA 2672 CAS NO- 1336-21-6
 Transportation Label/Placard Required: None
 Reportable Quantity: 1000 pounds of active ingredients

Manufacturer's Name: James Austin Company
 Address: P.O. Box 827
 Downsville Road
 Mars, PA

Emergency Phone: 412-625-1535
 Telephone For Information: 412-625-1535
 Date Prepared: June 18, 1990

SECTION II

INGREDIENTS

	Percent	ACGIH TLV	OSHA PEL	CAS NO
Water	96.000%	None	None	7732-18-5
Ammonium hydroxide (NH ₄ OH)	4.000%	None	None	1336-21-6

SECTION III

PHYSICAL/CHEMICAL DATA

Boiling Point:	212°F	Specific Gravity (Water = 1):	0.980
Freeze Point:	32°F	pH of Product:	11.5
Vapor Pressure (mm Hg):	VP of water	Evaporation Rate (Butyl Acetate = 1):	N/A
Vapor Density (Air = 1):	N/A	Percent Volatile By Volume %	None
Solubility in Water:	100%		
Appearance:	Clear liquid	Odor:	Typical ammonia aroma

Product Formulated Based On: Federal Specification O-A-451F TYPE V 12" Baume

SECTION IV

FIRE AND EXPLOSION DATA

Flash Point (Method Used):	Over 200°F	Closed Cup	Auto Ignition Temp:	Not Known
Flammable Limits:	LEL: 16% of ammonia		UEL: 25% of ammonia	
Extinguishing Media:	Water ✓	Foam	CO ₂	✓
	Dry Chemical ✓	Alcohol Foam	Other	

Fire Fighting Procedures: Avoid fumes from spilled or exposed liquid. Be prepared to use MSHA/NIOSH self-contained breathing apparatus and protective clothing.

Unusual Fire And Explosion Hazards: Rapid addition to concentrated mineral acids could create explosive conditions. Ammonia gas is flammable in air in concentrations of 16-25% ammonia by volume. Such concentrations could occur if ammonia is heated in a confined area which is not adequately ventilated.

SECTION V

HEALTH HAZARD DATA

Entry Routes: Inhalation?	Yes	Skin?	Yes	Ingestion?	Yes	Eyes?	Yes
							Irritant

OSHA Permissible Exposure Limit	None	ACGIH Threshold Limit Value	None
Carcinogen - NTP Program	None	Carcinogen - IARC Program	None

Signs And Symptoms Of Exposure: Raspy continuous coughing, runny nose, eye, skin and/or throat irritations.

Medical Conditions Generally Aggravated By Exposure: Skin cuts, burns or abrasions. Irritated eyes. Respiratory ailments.

Emergency First Aid: Eyes: Flush with large quantities of water. Call physician.

Skin: Remove clothing / wash area with water. Ingestion: Do not give liquid if victim is unconscious or drowsy. Otherwise, drink promptly one or two glasses of water. Follow with citrus juice. Avoid alcohol. Call physician immediately.

Call Poison Control Center for information if doctor unavailable.

SECTION VI

REACTIVITY DATA

Stability Stable: Yes Conditions To Avoid: Heat or direct sunlight.
Incompatibility (Materials To Avoid): Strong mineral acids. Corrodes copper, zinc, and their alloys. Avoid bleach and iodine.
Hazardous Polymerization May Occur: No Conditions To Avoid: N/A
Hazardous Decomposition Or Byproducts: None

SECTION VII

ENVIRONMENTAL PROTECTION PROCEDURES

Spill Precautions: Contain run-off with absorbent materials such as sand or clay and diking.
Transfer liquid and absorbent material in approved container. Then flush and mop area with water allowing to air dry. Keep spill out of sewers and open bodies of water.

Diluted solution can be used as a fertilizer.
Do not add this product to any irrigation system.

Container Disposal: Triple rinse. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities by burning. If burned stay out of smoke.
Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

SECTION VIII

SPECIAL PROTECTION INFORMATION

Eye Protection: Product is irritating. Wear goggles or face shield when pouring into mixing container.

Respiratory Protection: Not required under normal use conditions for cleaning or laundry preparations.

Skin Protection: Wear rubber gloves when handling.

Ventilation Recommended: None

Other Protection: None

SECTION IX

SPECIAL PRECAUTIONS

Hygienic Practices (Handling / Storage) Avoid heat and direct sunlight. Follow directions on label. Tighten cap securely.
Store container upright. Keep away from children. Do not store near food stuffs, water or feed.
Avoid creasing or impacting of side container walls.
Separate from acids, bleaches, soap based products or organic materials.

SECTION X

ADDITIONAL INFORMATION

The information below is believed to be accurate and represents the best information currently available to us.
However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.