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## Section 1 – Product Identity as used on Label

### CLEAR NO SUDS AMMONIA

MSDS Prepared: June 1999

Manufacturer: Great Western Chemical Co.  
808 S.W. 15<sup>th</sup> Ave.  
Portland, OR 97205

# MATERIAL SAFETY DATA SHEET (MSDS)

## Section 2 – Hazardous Ingredients/Identity Information

Hazardous Components <i>(Specific Chemical Identity/Common Names(s))</i>	CAS #	TWA	STEL	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Ammonium Hydroxide	1336-21-6	N/D	N/D	N/E	N/E	N/D	55 min
[Ammonia]*	[7664-41-7]	[N/D]	[35 ppm]	[N/E]	[Air: 25 ppm]	[N/D]	[27 min]

\*Subject to SARA Title III, Section 313 reporting. This notification must not be detached from this MSDS, and any copies of this MSDS must include this notification. This notification applies only to material while it is within the boundaries of the United States of America or its territories. All chemicals in this product are listed on the Toxic Substance Control Act (TSCA) inventory.

**NFPA Ratings:** Health: 2 Fire: 1 React: 0 Specific Hazard: Corrosive

**HMIS Ratings:** Health: N/D Fire: N/D React: N/D PPI: N/D

## Section 3 – Physical/Chemical Characteristics

### Boiling Point

82.4°F

### Vapor Pressure (mm Hg)

N/D

### Vapor Density (Air=1)

N/D

### Solubility in Water

Complete

### Appearance and Odor

Clear, colorless liquid; strong, pungent ammonia odor

### Specific Gravity (H<sub>2</sub>O=1)

0.9 at 60°F

### Melting Point

N/A

### Freezing Point

-106°F

### Evaporation Rate (Butyl Acetate=1)

N/D

### pH

11.2

### Percent Volatile Organics

27% by Volume

## Section 4 – Fire and Explosion Hazard Data

### Flash Point 1 (Method used)

200°F; Tag. Closed Cup

### Extinguishing Media

Water, Foam, CO<sub>2</sub>, Dry Chemicals

### Special Fire Fighting Procedures

When fire fighting, wear full protective equipment, including self-contained breathing apparatus.

### Flammable Limits

(In air, % by volume)

### LEL

N/D

### UEL

N/D

### Auto Ignition Temperature

N/D

### Unusual Fire and Explosion Hazards

Will produce hazardous fumes and hazardous decomposition products. Water solutions may be corrosive.

## Section 5 – Reactivity Data

**Stability:** Unstable Stable Conditions to avoid  
XX Hot storage

**Incompatibility (Materials to avoid)**  
Acids, chlorine releasers, oxidizers,  
and strong caustics.

### Hazardous Decomposition or Byproducts

When heated to decomposition, it emits toxic ammonia fumes and oxides of nitrogen.

**Hazardous Polymerization:** May Occur Will Not Occur Conditions to Avoid  
XX None

N/A = Not Applicable

N/D = No Data Available

N/E = Data Not Established

Continued on reverse

## Section 6 – Health Hazard Data

<b>Primary Route(s) of Entry:</b>	<b>Inhalation?</b>	<b>Skin?</b>	<b>Ingestion?</b>	<b>Eyes?</b>
	Yes	Yes	Yes	Yes

### Health Hazards (Acute, Chronic, Reproductive)

Eyes: “Danger” Corrosive  
Skin: “Danger” Corrosive  
Skin absorption: N/D Published  
Ingestion: Harmful if swallowed.  
Inhalation: Harmful if inhaled.

\*\*Repeated exposure can lead to dermatitis with possible mucous membrane irritation. \*\*

<b>Carcinogenicity:</b>	<b>NTP?</b>	<b>IARC Monographs?</b>	<b>OSHA Regulated?</b>
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This product is not formulated/manufactured to contain a known carcinogen or reproductive toxin. Extremely small amounts of these materials may be present in this product from general environmental sources.

### Signs and Symptoms of Exposure

Eyes: Causes severe irritation or burns.  
Skin: Causes severe irritation or burns.  
Skin absorption: N/D  
Ingestion: Harmful if swallowed.  
Inhalation: Harmful if inhaled.

### Medical Conditions Generally Aggravated by Exposure

N/D

### <sup>TM</sup>Emergency and First Aid Procedures

Eyes: Immediately flush eyes with plenty of clean running water for at least 15 minutes, lifting the upper and lower lids occasionally. Call a physician immediately.  
Skin: In case of contact, immediately flush skin with plenty of clean running water for at least 15 minutes, while removing contaminated clothing and shoes. If burn or irritation occurs, call a physician.  
Ingestion: If swallowed, DO NOT induce vomiting. Immediately drink a large quantity of milk or water and call a physician. Never give anything by mouth to an unconscious person.  
Inhalation: If inhaled, immediately move to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician.

## Section 7 – Precautions for Safe Handling and Use

### Steps To Be Taken in Case Material is Released or Spilled

Contain spill. (For small spills, add dry material to contain). Wearing recommended protective equipment, pick up bulk of liquid. Flush area with plenty of water; collect rinsates for disposal or sewer, as appropriate.

### Waste Disposal Method

This product, if disposed as shipped, meets EPA criteria of hazardous waste as specified in 40 CFR 261 on the basis of its corrosivity. Dispose of product in a licensed hazardous waste disposal facility in accordance with all applicable laws. When empty, thoroughly rinse container with water before disposal, return to manufacturer, or any other industrial use.

☞ All wastes must be disposed of in accordance with federal, state and local regulations.

### Precautions To Be Taken in Handling and Storing

Store in a cool, dry, well-ventilated area away from heat, sparks, and open flames. Do not add this product to strong caustics as this will liberate ammonia gas. Keep out of reach of children. Use only with adequate ventilation. Keep container tightly closed when not in use. FOR INDUSTRIAL USE ONLY.

### Dot shipping Classification

Ammonium hydroxide (containing not less than 12%, but no more than 44% ammonia). Corrosive material; NA 2672

## Section 8 – Control Measures

### Respiratory Protection (Specific Type)

If TLV for ammonia is exceeded, then a NIOSH-approved respirator with an ammonia gas cartridge or supplied air is required.

<b>Ventilation</b>	<b>Local Exhaust</b>	XX*	<b>Special</b>	None
	<b>Mechanical (General)</b>	XX**	<b>Other</b>	N/A

\* Required. \*\*As a supplement to the local exhaust system.

### Protective Gloves

Rubber or synthetic rubber

### Eye Protection

Chemical goggles (recommended by ANSI Z87.1-1979)

### Other Protective Clothing or Equipment

Rubber apron, rubber boots, eyewash and safety shower.

### Work/Hygienic/Maintenance Practices

Wash thoroughly after handling. Do not get product in eyes, on skin, or on clothing.

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