

MATERIAL SAFETY DATA SHEET

Product Name: **SUDSY AMMONIA**

HAZARD RATING: Health: 2 Flammability: 0 Reactivity: 0 Special:
 *HAZARD Rating Scale: 4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant

Section I - Producer Information

DIAMOND PRODUCTS, INC.
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 Helena, MT 59601

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 DATE: July, 2003

Section II - Hazardous Ingredients

HAZARDOUS COMPONENTS	CAS#	PEL(TWA)	TLV	CARCINOGEN
Ammonium Hydroxide (Ammonia in water)	1336-21-6	50 ppm	25 ppm	No

Section III - Physical Data

Boiling Point: 190 - 220°F Specific Gravity: 0.98 g/ml
 Melting Point: NA Solubility in Water: Complete
 % Volatile by wt: 5% as Ammonia gas pH: 12
 Appearance and Odor: Clear colorless liquid with pungent odor.

Section IV - Fire and Explosion Data

Flash Point: Not available*
 Flammable limits in Air, % by Vol. Upper: 25 (Ammonia) Lower: 16 (Ammonia)
 Extinguishing Media: Water
 Special Fire Fighting Procedures: Cool containers exposed to fire with water.
 Unusual Fire and Explosion Hazards: * Releases flammable ammonia gas at all temperatures which can be explosive.

Section V- Reactivity Data

Stability: Stable
 Conditions to avoid: Do not mix with strong acids.
 Incompatibility: Strong acids, Mercury, dimethyl sulfate, gold, silver nitrate, silver oxide.
 Hazardous Decomposition By-products: Ammonia
 Conditions Contributing to Hazardous Polymerization: Will not polymerize.

Section VI - Health Hazard Data

ROUTES OF EXPOSURE

Inhalation: Vapors are extremely irritating and upon prolonged contact can cause burning of tissues.
 Skin Contact: May cause irritation or burning of tissues. Eye Contact: May cause severe tissue damage.
 Ingestion: Can cause severe burning of tissues throughout the digestive system.
 Signs and Symptoms of Exposure: Burning and irritation in all areas of exposure.
 Medical Conditions Generally Aggravated by Exposure: Respiratory conditions.

EMERGENCY FIRST AID PROCEDURES

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If difficult breathing persists seek medical attention.
 Skin Contact: Wash with plenty of water for at least 15 minutes. If irritation persists seek medical attention.
 Eye Contact: Wash immediately with plenty of cool water being sure to wash under the eye lid for at least 15 minutes.
 Seek immediate medical attention.
 Ingestion: DO NOT induce vomiting. Dilute product by giving large quantities of water or milk, followed by dilute vinegar or fruit juice to accomplish neutralization. Seek immediate medical attention.

Section VII - Precautions for Safe Handling

Spills or Releases: Flush spills with copious quantities of water. Follow by neutralizing with dilute acetic acid (vinegar), and rinse.
 Waste Disposal Methods: Dispose of in accordance with local, state and federal regulations.
 Clean Water Act Requirement: N/A
 Resource Conservation and Recovery Act Requirements: N/A
 Precautions for Handling and Storage: Avoid skin contact and excessive breathing of vapors.

Section VIII - Control Measures

Ventilation Requirements: Maintain adequate ventilation.
 PERSONAL PROTECTIVE EQUIPMENT
 Respiratory: Ammonia respirator should vapors exceed 25 ppm.
 Eyes: Chemical Goggles
 Gloves: Plastic or rubber-coated.
 Other Clothing and Equipment: Safety shoes and long sleeve shirt and long pants.

Section IX - Special Precautions

None

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