

IDENTITY (As used on Label and List): ELITE CLEAR AMMONIA

Section 1

Manufacturer's Name Elite	Emergency Telephone Number: CHEMTREC: (800) 424-9300
Manufacturer's Address 203 West Avenue Ludlow, MA 01056	Telephone Number for Information (800) 457-4449
Date Prepared January 3, 2000	DOT Shipping Name: Not DOT Regulated
Revision: No. 7	DOT Hazardous Substance: Not DOT Regulated
	DOT Hazardous Guide: Not DOT Regulated

Section 2: Hazardous Ingredients/Identity Information

HAZARDOUS COMPONENTS		
SPECIFIC CHEMICAL IDENTITY:	<u>Ammonium Hydroxide</u>	<u>Aqueous Ammonia</u>
UN #	Not DOT Regulated	Not DOT Regulated
CAS NUMBER:	1336-21-6	7664-41-7
OSHA PEL	50 ppm STEL	50 ppm STEL
ACGIH TLV	25 ppm TWA	25 ppm TWA
% (OPTIONAL)	2.5-4.0%	<3.5%
DOT CLASSIFICATION	Not DOT Regulated	Not DOT Regulated
NFPA Hazard Designation		
Health	2 - Caution: Corrosive to eyes, skin and respiratory and digestive tracts	
Flammability	0 - Non combustible.	
Reactivity	N/A	
Personnel Protection	N/A	

Section 3: Physical/Chemical Characteristics

Boiling Point:	191-212°F	Melting Point	N/A
Vapor Pressure (mm Hg.)	N/A	Evaporation Rate(Butyl Acetate=1)	>1
Vapor Density (AIR=1)	N/A	Appearance and Odor	Clear, colorless liquid with a distinct ammonia odor.
Solubility in Water	Completely Soluble	Freezing Point	N/A
Specific Gravity (H2O=1)	0.9890		

Section 4: Fire and Explosion Hazard Data

Flash Point (Method Used)	Non-Flammable
Flammable Limits	
LEL	16% as NH ₃
UEL	27% as NH ₃
Extinguishing Media	Carbon Dioxide, dry chemical, foam or water spray.
Special Fire Fighting Procedures	If possible, cool containers by removing from fire area and spraying with water.
Unusual Fire and Explosion Hazards	Emits toxic fumes of NH ₃ and NO _x when exposed to heat. NH ₃ + air in a fire can explode.

Section 5: Reactivity Data

Stability	Product is stable.
Conditions to Avoid	Exposure to flame or excessive heat.
Materials to Avoid	Acrolein; nitromethane; acrylic acid; chlorosulfonic acid; aluminum; dimethyl sulfate; halogens; HC1; HF; HNO ₃ ; oleum; B-propiolactone; propylene oxide; AgNO ₃ ; Ag ₂ O; AgMnO ₄ ; H ₂ SO ₄ ; chlorine bleach, strong oxidants, acids.
Hazardous Decomposition Byproducts	NH ₃ and NO _x gases.

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Section 6: Health Hazard Data

Routes of Entry:	Inhalation	Yes	Skin	Yes	Ingestion	Yes
Health Hazards (Acute and Chronic)						
Acute:	Corrosive to eyes, skin, and respiratory and digestive tracts.					
Chronic:	None					
Carcinogenicity:	NTP:	Not listed				
	IARC Monographs	Not listed				
	OSHA Regulated	Not listed				
Signs and Symptoms of Exposures:	Eyes and Skin:	Burning and pain.				
	Respiratory Tract:	Loss of breath.				
	Ingestion:	N/A				
Medical Conditions Generally Aggravated by Exposure	N/A					
Emergency and First Aid Procedures	Eyes:	Flush with water for at least 15 minutes and call physician.				
	Skin:	Flush with water for at least 15 minutes and call physician.				
	Inhalation:	Remove victim to fresh air and call physician if breathing is difficult.				
	Ingestion:	Do Not induce vomiting. Call Physician.				

Section 7: Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:	Avoid physical contact and inhalation of vapors. Dilute with large quantities of water.
Waste Disposal Method:	Handle as hazardous waste. Use licensed contractor to transport, store or treat.
Precautions to be Taken in Handling and Storing.	Avoid exposure to flame or excessive heat. Avoid physical contact and inhalation of vapors. Do not mix with other chemicals.
Other Precautions:	Do not mix with other cleaning agents containing acids or chlorine bleach.

Section 8: Control Measures

Respiratory Protection:	Not required under normal conditions.
Ventilation:	Local Exhaust: Maintain Ammonia vapors <25 ppm Mechanical (General): Maintain Ammonia vapors < 25 ppm
Protective Gloves:	Rubber or synthetic. Eye Protection: Chemical Splash Goggles
Other Protective Clothing or Equipment:	Aprons, coveralls, lab coats, or uniforms.
Work/Hygienic Practices:	Do not mix with other household chemicals. Especially acids or chlorine bleaches. Do not soak aluminum utensils. Avoid skin and vapor contact. Wash after using.

Section 9: Additional Information

TSCA INVENTORY:	Listed	
SARA TITLE III HAZARD CATEGORIES: This product contains the following toxic chemical(s) subject to reporting requirements of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 313.		
<u>CAS #</u>	<u>Chemical Name</u>	<u>% By Weight</u>
7664-41-7	Ammonia	2.5 - 4.0%

DISCLAIMER:
As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable Federal and State law(s). However, no warranty or representation with respect to such information is intended or given. It is the user's obligation to determine the conditions of safe use of this product. Each user should study this Material Safety Data Sheet to become aware of the product hazards. Additional resources may have to be consulted to insure safe handling, storage and use.