

SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined

N/A=Not Applicable

Product: 7% AMMONIA**Chem. Name:** N/A**Chem. Family:** Mixture**Manufacturer:** ESTEAM MANUFACTURING**Trade Name:** Household Ammonia**Use:** Spotting agent**Flammability:** 0**Reactivity:** 0**Health:** 2**Protection:**

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

HAZARDOUS INGREDIENTS**CAS #****% WT****HAZARD DATA****EXPOSURE LIMITS (TLV)**

Ammonia

1336-21-6

7 %

LD50 350 mg/kg (oral-rat)

25 ppm

PHYSICAL DATA**Physical State:** Liquid**Boiling Point (C):** N/D**Solubility in Water:** N/D**Evaporation Rate:** N/D**Freeze/Thaw Stable:** Yes**Odor/Appearance:** Colorless, ammonia odor**Freezing Point (C):** N/D**Ph (undiluted):** N/D**Specific Gravity:** N/D**Percent Volatile (vol):** N/D**Vapor Pressure:** N/D**FIRE & EXPLOSION HAZARD****Flammability:** No**Means of Extinction:** N/A**Special Procedures:** N/A**Explosion Sensitivity to Impact:** N/A**Chemical Sensitivity to Static Discharge:** N/A**Flashpoint (C) & Method:** N/A**Conditions:** N/A**Hazardous Combustion Products:** Ammonia fumes when heated**Upper Explosion Limit (% by vol):** N/A**Lower Explosion Limit (% by vol):** N/A**Auto-ignition:** N/A**Rate of Burning:** N/A**Explosive Power:** N/A**TDG/WHMIS:** Non Hazardous / D2B**REACTIVITY DATA****Chemical Stability:** Stable**Hazardous Decomposition Product:** None**Incompatible Substances:** Acids, strong alkalis, chlorine bleach**TOXICOLOGICAL PROPERTIES****Route of Entry - Skin Contact:** Y
Route of Entry - Skin Absorption: N
Route of Entry - Eye Contact: Y
Route of Entry - Inhalation: Y
Route of Entry - Ingestion: Y**Reproductive Effects Y/N:** N
Carcinogenicity Y/N: N
Mutagenicity Y/N: N
Teratogenicity Y/N: N
TLV: N/D**Effects of Overexposure:****Acute Effects:**

Inhalation may cause lung congestion, irritation of upper respiratory tract, and breathing problems. Ingestion may cause mouth, throat and stomach burns. Eye and skin contact may cause burning and irritation.

Chronic Effects:

None known

PREVENTATIVE MEASURES**Gloves:** Rubber recommended**Footwear:** N/A**Clothing:** N/A**Eyes:** Chemical goggles**Respirator:** Organic vapor recommended**Other:** N/A**Recommended Engineered Controls:**

Use with adequate ventilation.

Leak & Spill Procedures:

Flush with water and mop up residue.

Waste Disposal Methods:

According to federal, provincial and municipal regulations.

Special Handling Procedures:

Keep tightly closed when not in use. Store in a cool, dry place.

FIRST AID MEASURES**Inhalation:** Move person to fresh air. If necessary give artificial respiration or oxygen. Call doctor if in distress.**Ingestion:** Do not induce vomiting. Give large amounts of water. Contact a physician.**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Call a physician.**Skin Contact:** Wash skin with soap and water. Launder clothing before reuse. Contact a physician if irritation persists.**Prep./Revised Date:** May 1, 2007**Prepared By:** R. Russell**Source Material:** Manufacturer's MSDS**Emergency Response:** 1-613-996-6666 (Transport Emergencies)**Mailing Address:** Esteam Manufacturing Ltd.

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This information is complete to the best of our knowledge, however, users are encouraged to make their own investigations into the suitability of the information to their particular purposes. READ THE LABEL before using this or any product, and take any necessary precautions, dictated by the label or by common sense to ensure that your health is protected.