

GULF ENGINEERING COMPANY, LLC

WATER MANAGEMENT DIVISION

611 HILL STREET

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MATERIAL SAFETY DATA SHEET

HARDNESS BUFFER

CODE 873*

EMERGENCY TELEPHONE NUMBER

CHEMTREC 1-800-424-9300

PRODUCT INFORMATION

Trade Name: HARDNESS BUFFER, GESSCO CODE 873*

Formula: NH₄Cl & NH₄OH

Chemical Names/Synonyms: Ammonium Chloride & Ammonium Hydroxide Solution

DOT Shipping Name: Ammonia Solution, with more than 10% but not more than 35% Ammonia, 8, UN2672, PGIII

DOT Hazard Class: 8, CORROSIVE

PHYSICAL DATA (TYPICAL)

Appearance: Colorless liquid

pH: N/A

Odor: Strong ammonia odor

Solubility in Water: Complete

Specific Gravity (H₂O= 1): N/A

Boiling Point: 120°- 140°F

HAZARD INGREDIENTS

<u>Components</u>	<u>%</u>	<u>TLV</u>
Ammonia (NH ₃)	14.0	50 ppm

FIRE AND EXPLOSION DATA

Flash Point (method): N/A

Extinguishing Media: N/A

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: Will produce ammonia gas upon heating.

HEALTH HAZARD DATA

Effects of Overexposure: Vapor irritating to the eyes; vapors may cause coughing; liquid is irritating to the skin. Ingestion may cause severe burning to mouth and stomach.

EMERGENCY FIRST AID PROCEDURES:

Eyes: Flush eyes thoroughly with copious quantities of water and get medical attention.

SKIN: Remove contaminated clothing and wash with water and get medical attention.

INGESTION: Do not induce vomiting. If conscious, give large quantities of dilute (1:4) vinegar, lemon, or grapefruit juice. Followed by milk or raw egg whites beaten in water. Get medical attention immediately.

INHALATION: Remove to fresh air.

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REACTIVITY DATA

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STABILITY: Stable

INCOMPATIBILITY: Do not expose to high heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia

Hazardous Polymerization: Will not occur.

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SPILL OR LEAK PROCEDURES

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Steps to be taken in event material is released or spilled: Take up with absorbent material such as vermiculite, sand, or sawdust or flush with water.

Waste Disposal Method: Burial of absorbent material or flush to sewer with large excess of water, where possible.

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SPECIAL PROTECTION INFORMATION

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Specific Personal Protective Equipment:

EYES: Wear splash-proof goggles.

SKIN: Wear gloves.

RESPIRATORY: Avoid prolong exposure to vapors.

OTHER: N/A

Ventilation Requirements: Use fume hood when working with large quantities.

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SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep bottle tightly capped when not in use.

OTHER PRECAUTIONS: N/A

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The fourth digit of the code number designates package size:

GESSCO CODE 8732 – 2 OUNCE BOTTLE

GESSCO CODE 8735 – PINT BOTTLE

GESSCO CODE 8736 – QUART BOTTLE