UNITED 411

MATERIAL SAFETY DATA SHEET

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To Reorder Call:
800-323-2594

1. PRODUCT AND COMPANY IDENTIFICATION

FOR MEDICAL AND TRANSPORTATION EMERGENCIES
24 Hour INFOTRAC (US and CANADA): **800-535-5053**

PRODUCT NAME	USE/DESCRIPTION	REVISION DATE
UNITED 411 SUPERSTEAM	Steam and Return Line Treatment	July 18, 2011

HMIS III HEALTH (0 = Maximum Safety) 3

Always follow Label Directions and Cautions.

***** Chronic
4 Severe
3 Serious
2 Moderate
1 Slight
0 Minimal

See Hazards Identification Section of this MSDS for more detailed information.

PHYSICAL HAZARD (0 = Maximum Safety) 1

Susceptible to Release of Energy.

4 May detonate-vacate area if materials are exposed to fire.
3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers.
2 Violent chemical change possible-use hose stream from distance
1 Unstable if heated-use precaution.
0 Normally stable.

FLAMMABILITY (0 = Maximum Safety) 3

Susceptibility of Material to Burning.

4 Extremely flammable.
3 Ignites at normal temperature.
2 Ignites when moderately heated.
1 Must be preheated to burn.
0 Will not burn.

PERSONAL PROTECTION: n & p

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS#	%Range	ACGIH (TLV-TWA)	OSHA (PEL-TWA)	LD50 (Species/Route)	LC50 (Species)
Cyclohexylamine	108-91-8	60-100	NE	Skin: 10ppm	300 mg/kg (rat/oral)	NE

3. HAZARDS IDENTIFICATION

Eyes: Causes severe burns and irreversible damage.
Skin: Causes skin burns. May cause sensitization by skin contact.
Inhalation: Vapors or mist are irritating and cause nasal discharge, coughing, and discomfort in nose and throat. May cause sensitization by inhalation.
If Swallowed: Causes burning of mouth, throat, and stomach with abdominal and chest pain, nausea, vomiting and diarrhea.

4. FIRST AID MEASURES

Eyes: Flush with cool water holding eyelids apart for at least 15 minutes. Call a physician or poison center immediately.
Skin: Flush with water for at least 15 minutes and call a physician or poison center.
Inhalation: Get patient to fresh air immediately. Apply CPR if needed. Call a physician or poison center.
Ingestion: DO NOT induce vomiting. If conscious, give patient several glasses of water to dilute stomach contents and call a physician or poison center immediately.

5. FIRE FIGHTING MEASURES

Flash Point (TCC): 81°F/27°C **Explosive Limits:** Lower (LEL): 1.6%(V) Upper (UEL): 9.4%(V)
Flame Projection (Aerosol): N/A
Hazardous Products of Combustion: When strongly heated, as in a fire, this product may produce carbon dioxide, carbon monoxide, and toxic vapors.
Fire and Explosion Hazards: Sealed containers may rupture due to pressure build-up, greatly increasing the hazard. Water spray should be used to keep containers cool.
Extinguishing Media: Water spray, Dry chemical, alcohol foam, Carbon dioxide.
Fire Fighting Instructions: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. This product will produce toxic vapors in a fire.

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Ventilate area. Eliminate all sources of ignition. Clean up with a non-flammable sorbent such as clay or vermiculite and place in a labeled, closed metal container for proper disposal.
Large Spills: Ventilate area. Eliminate all sources of ignition. Clean up with a non-flammable sorbent such as clay or vermiculite and place in a labeled, closed metal container for proper disposal.

7. HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry place away from sources of ignition. Prevent electrostatic charge. Do not store in unlabeled or mislabeled containers. Wash hands and face with soap and water after handling this product. Remove contaminated clothing immediately and launder thoroughly before reusing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Chemical safety goggles recommended.
Skin: Chemical resistant gloves recommended.
Respiratory: None required if good ventilation is maintained. If TLV is exceeded, use a NIOSH/MSHA approved respirator.
Engineering Controls: Provide adequate ventilation and local exhaust is generally adequate.
Other Protective Clothing or Equipment: Shirts with long sleeves recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 274°F/134°C **Specific Gravity:** 0.867 (H2O=1) **Vapor Pressure:** 14 mm Hg **Melting Point:** 0.1°F/-17.7°C
Vapor Density: 3.42 **Evaporation Rate:** ~1.00 (Water=1) **Solubility in Water:** Complete **pH:** 11 – 11.5
Appearance and Odor: Colorless liquid with amine odor.

10. STABILITY AND REACTIVITY

Hazardous Polymerization: Will not occur.
Hazardous Decomposition: When heated strongly, as in a fire, this product may produce carbon dioxide, oxides of carbon may be produced. Nitrogen oxides can react with water to produce nitric acid.
Chemical Stability: Stable
Incompatibility: Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static charge. Avoid acids.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity (NTP/IARC/OSHA): None
California Proposition 65: Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

12. ECOLOGICAL INFORMATION

ND

13. DISPOSAL CONSIDERATIONS

Consult your local, state, provincial, and federal regulations for proper disposal guidelines. Disposal regulations may be different for each state and/or locality.

14. TRANSPORT INFORMATION

DOT: Available upon request
TDG: Available upon request
UN: Availabale upon request

15. REGULATORY INFORMATION

VOC(Volatile Organic Compounds): ND
TSCA (Toxic Substances Control Act): Listed
SARA Title III Section 302 EHS: ND
SARA Title III Section 311/312: Acute, Chronic, Fire
SARA Title III Section 313 Toxic Chemicals: None
WHMIS Classification:
This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/ WHMIS) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.

UNITED 411 SUPERSTEAM **PREPARED BY:** Sandy Kopacz