IDENTITY: R-92

HMIS Codes:

- Health: 3
- Flammability: 1
- Reactivity: 0

SECTION I

Manufacturer's Name: CASCADE WATER SERVICES, Inc.
Address: 113 BLOOMINGDALE ROAD, HICKSVILLE, NY 11801
Emergency Telephone Number: 800-424-9300
Telephone Number for Information: 516-932-3030
Date Prepared: 8/30/04

SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity; Common Names):

- Cyclohexylamine
  - CAS#: 108-91-8

OSHA PEL: 10 ppm
ACGIH TLV: AIR 10 ppm
Other Limits Recommended: NA
%: NA

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

- Boiling Point: $212^0$ F
- Specific Gravity (H$_2$O=1): 0.97
- Vapor Pressure (mmHg): NE
- Melting Point: NA
- Vapor Density (AIR=1): NE
- Evaporation Rate (Butyl Acetate=1): NA
- Solubility in Water: 100%
- Appearance and Odor: Clear, fishy amine odor

NA – not applicable
NE – not established
SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 122°F PMCC
Flammable Limits: NE LEL: NE UEL: NE
Extinguishing Media: Water spray, water fog, CO₂, dry chemical, foam
Water may be ineffective on flames, but should be used to cool fire exposed containers and provide protection for persons attempting to stop the leak.
Special Fire Fighting Procedures: Wear special chemical protective clothing and positive pressure self-contained breathing apparatus. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.
Unusual fire and Explosion Hazards: Flammable materials may release vapors that travel long distances, ignite and flash back. Containers may explode in a fire. Do not expose to heat, sparks, or flame or other sources of ignition. When handling, use non-sparking tools, ground and band all containers.

SECTION V REACTIVITY DATA

Stability: Stable: X Unstable:

Conditions to Avoid: Heat and open flame

Incompatibility (Materials to Avoid): Strong acids and oxidizers. Reaction may generate heat or dangerous fumes

Hazardous Decomposition of Byproducts: Carbon monoxide, carbon dioxide, nitrogen oxides

Hazardous Polymerization: May Occur: Will Not Occur: X

Conditions to Avoid: Heat

SECTION VI HEALTH HAZARD DATA

Route(s) of Entry: Inhalation: X Skin: X Ingestion: X

Health Hazards (Acute and Chronic): Oral (rat) LD50 = 348mg/kg/156mg/kg.
Carcinogenicity: Negative NTP: NA IARC Monographs: NA OSHA Regulated: NA

Signs and Symptoms of Exposure: Eye: Corrosive, causes irritation or burns to eyes and mucous membranes. Skin: Corrosive, irritant. May cause burns or dermatitis.

Medical Conditions Generally Aggravated by Exposure: NA
Emergency and First Aid Procedures:

EYES: Flush with plenty of water for at least 15 minutes. See a physician.

SKIN: Wash with mild soap and water. Get medical attention. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

INGESTION: DO NOT induce vomiting. Give plenty of water or milk. Get medical attention.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. Give oxygen. Get medical attention.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Extinguish all ignition sources. Ventilate area. Prevent spread of spill. Absorb with sand or inert material. Place in metal container and seal.

Waste Disposal Method: In accordance with local, state and federal regulations.

Precautions to be Taken in Handling and Storing: Store away from heat and open flame in well-ventilated area. Wash thoroughly after handling; do not get into eyes, on skin or clothing. Do not breathe vapors.

Other Precautions: Do not use zinc or aluminum to draw off material.

SECTION VIII CONTROL MEASURES

Respiratory Protection (Specify Type): Amine cartridge
Ventilation (Local/Mechanical/Special): Use with adequate ventilation
Protective Gloves: Impermeable
Eye Protection: Chemical goggles
Other Protective Clothing or Equipment: NA
Work/Hygienic Practices: Avoid repeated personal and clothing contact.

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