IDENTITY: A-12C

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):
Sodium lignosulfonate CAS# 8061-51-6
Sodium hydroxide CAS# 1310-73-2 *
Trisodium nitrilotriacetate CAS# 5064-31-3

OSHA PEL: NA
* ACGIH TLV: 2mg/m3 ceiling based on 100% concentration
Other Limits Recommended: NA
%

SECTION III Physical/Chemical Characteristics

Boiling Point: NA
Specific Gravity (H2O=1): NA
Vapor Pressure (mm Hg.): NA
Melting Point: NA
Vapor Density (AIR=1): NA
Evaporation Rate (Butyl Acetate=1): NA
Solubility in Water: Miscible
Appearances and Odor: Brown liquid

SECTION IV Fire and Explosion Hazard Data

Flash Point (Method Used): NA
Flammable Limits: Non-flammable LEL: UEL:
Extinguishing Media: Water spray, foam
Special Fire Fighting Procedures: Protective clothing and pressure demand self-contained breathing apparatus should be worn by firefighters where this product is stored.

NA - not applicable NE - not established
Unusual Fire and Explosion Hazards: In water solution product can react with amphoteric metals (such as aluminum) generating hydrogen which is flammable and/or explosive if ignited.

SECTION V  Reactivity Data

Stability: Stable: X Unstable:

Conditions to Avoid: Inorganic acids

Incompatibility (Materials to Avoid): This product should be added slowly to water to avoid exothermic reactions. Aluminum reacts with water solutions of product to release hydrogen.

Hazardous Decomposition or Byproducts: None

Hazardous Polymerization: May Occur: Will Not Occur: X

Conditions to Avoid: Material is not known to polymerize.

SECTION VI  Health Hazard Data

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

Health Hazards (Acute and Chronic): This product is a corrosive material.

EYE: May cause severe irritation with corneal injury and result in permanent impairment of vision, even blindness.

SKIN CONTACT: Short single exposure may cause severe skin burns.

SKIN ABSORPTION: A single prolonged skin exposure is not likely to result in absorption of harmful amounts. The dermal LD50 has not been determined.

INGESTION: May cause gastrointestinal irritation or ulceration, and severe burns of the mouth and throat. Single dose oral LD50 has not been determined.

Carcinogenicity:
NTP: IARC Monographs: NA OSHA Regulated: NA
NTP has listed nitrilotriacetic acid (NTA) as a suspect carcinogen. According to the ACGIH guidelines, NTA would not "be an occupational carcinogen of any practical significance". There is no evidence that NTA is a human carcinogen.

Signs and Symptoms of Exposure: This product is destructive to skin and eye tissue and can cause severe burns. Airborne concentration of mist of this product may cause damage to the respiratory tract.

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

EYES: WATER is the only accepted method of removal of caustic soda (lye) from the eyes or skin. You may have 10 seconds or less to avoid serious permanent injury. Therefore, IMMEDIATE first aid must be given after any injurious exposure. Moving the victim from water access for transport to medical aid should be done only on the advice of qualified medical personnel. While transporting victim to a medical facility, continue washing if possible. In case of eye contact, wash eyes immediately and continuously for 30 minutes. Call for medical assistance immediately.

SKIN: Immediate continued and thorough washing in flowing water for 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential. Wash contaminated clothing before reuse. Destroy contaminated shoes.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to a medical facility.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: Corrosive. May cause stricture. If lavage is performed, suggest endotracheal and/or esophagoscopy control. Material is strong alkali. If burn is present, treat as any thermal burn, after decontamination. For burns of skin only. Eye irrigation may be necessary for an extended period of time to remove as much caustic as possible. Duration of irrigation and treatment is at the discretion of medical personnel. No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

SECTION VII Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Leaks should be stopped and cleaned up immediately. Spill area should be flushed with plenty of water while avoiding splashing. Personnel should wear protective clothing and equipment.

Waste Disposal Method: Only trained and properly protected personnel should be involved in spill cleanup operations. Acting cautiously, small accidental spills of caustic soda solution should be carefully flushed with water. Dilute acid, preferably acetic acid, may be used to neutralize only the final traces of caustic after flushing. Disposal of caustic soda must meet all federal, state, and local regulations.

Precautions to be Taken in Handling and Storing: Signal Word: Danger! Statement of hazardous. See label on drum. Causes severe burns to skin and eyes.

Other Precautions: Do not use zinc or aluminum valves to draw off material.
SECTION VIII  Control Measures

Respiratory Protection (Specify Type):  Respirator where mist may be generated.

Ventilation (Local/Mechanical/Special): Local

Protective Gloves: Impervious

Eye Protection: Chemical goggles

Other Protective Clothing or Equipment:  Coveralls, chemical resistant shoes.  Showers and eyewash facilities should be accessible.

Work/Hygienic Practices:  Wash contaminated clothing with soap and water and dry before reuse.

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