IDENTITY:  TB-64

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):

%  
Potassium dimethyldithiocarbamate  CAS# 128-03-0  20%

OSHA PEL: NA
ACGIH TLV: NA
Other Limits Recommended: NA

SECTION III  Physical/Chemical Characteristics

Boiling Point: Above 212 F
Specific Gravity (H2O=1): 1.09
Vapor Pressure (mm Hg.): NE
Melting Point: NA
Vapor Density (AIR=1): NE
Evaporation Rate (Butyl Acetate=1): NE
Solubility in Water: Complete
Appearances and Odor: Clear green liquid, ammonia sulfide odor.

SECTION IV  Fire and Explosion Hazard Data

Flash Point (Method Used): None below 212 F
Flammable Limits: NA  LEL: NA  UEL: NA
Extinguishing Media: Water fog, CO2, foam, dry chemical.
Special Fire Fighting Procedures: Self contained breathing apparatus with full face mask and full protective equipment is recommended.
Unusual Fire and Explosion Hazards: None

SECTION V  Reactivity Data

Stability: Stable: X  Unstable: 

Conditions to Avoid: NA

Incompatibility (Materials to Avoid): Strong acids

Hazardous Decomposition or Byproducts: Carbon disulfide and dimethylamine may be generated upon acidification. Thermal degradation may generate vapors of hydrogen sulfide. Contact with fire or strong oxidants may generate oxides of sulfur, nitrogen and carbon.

Hazardous Polymerization: May Occur:  Will Not Occur: X

Conditions to Avoid: NA

SECTION VI  Health Hazard Data

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

Health Hazards (Acute and Chronic): Inhalation at high levels of mist can cause irritation to lung tissue due to corrosive characteristics.
* Acute Oral LD50: 2,030.0 mg/kg
* Acute Dermal LD50: 2,990.0 mg/kg

* Values based on 50% Potassium dimethyldithiocarbamate solution

Irritant Effects: Irritating to eyes and skin.

Sensitization Effects: Product is a weak sensitizer in animal study. No instances of human allergic reaction are known.

Carcinogenicity: Not listed in any of OSHA Standard, Section 1910.1200 sources as carcinogenic
NTP: NA  IARC Monographs: NA  OSHA Regulated: NA

Signs and Symptoms of Exposure: EYE EXPOSURE: Eye irritant. Effects may vary depending on the length of exposure, solution concentration and first aid measures. SKIN EXPOSURE: Irritant. Effects may vary depending on length of exposure, solution concentration and first aid measures. INHALATION: Prolonged breathing of vapors may cause dizziness and/or nausea. INGESTION: No data is available on human ingestion.

Emergency and First Aid Procedures:

EYES: Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation.

SKIN: Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists, consult a health care professional.
INHALATION: If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, seek a health care professional immediately.

INGESTION: DO NOT INDUCE VOMITING. Rinse with copious amounts of water or milk, first. Irrigate the esophagus and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product, seek medical assistance immediately; take individual to nearest medical facility.

NOTE TO PHYSICIAN: No specific antidote is known. Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptoms.

SECTION VII  Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: IMPORTANT: Before responding to a spill or leak of this product, review each section of this MSDS. Follow the recommendations given in the Handling Precautions sections. Check the Fire and Explosion Data section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. IF irritating fumes are present, consider evacuation of enclosed areas.

Initially minimize area effected by the spill or leak. Block any potential routes to water systems (e.g. sewers, streams, lakes, etc.). Based on the product's toxicological and chemical properties, and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g. water systems, ground, air equipment, etc.). There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments. Determine if federal, state, and/or local release notification is required (see Regulatory Classifications section of this MSDS). Recover as much of the pure product as possible into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Address clean-up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Clay, soil, or commercially available absorbents may be used to recover any material that can not readily be recovered as pure product. Flushing residual material to an industrial sewer, if present at the site of a spill or leak incident, MAY BE acceptable if authorized approval is obtained. If product and/or spill/leak residuals are flushed to an industrial sewer, insure that they do not come into contact with incompatible materials. Contact the person(s) responsible for the operation of your facility's industrial sewer system prior to intentionally flushing or pumping spills or leaks of this product to the industrial sewer.


Contaminated Materials: Determine if waste containing this product can be handled by available industrial effluent system or other on-site waste management unit. If off-site management is required, contact a company
experienced in industrial waste management. This product is not specifically listed in 40 CFR 261 as a Resource Conservation and Recovery Act (RCRA) hazardous waste. HOWEVER, spill or leak residuals MAY meet the criteria of a characteristic hazardous waste under this Act. Check the characteristics of the material to be disposed of and/or the physical and reactivity data given in this MSDS for the neat product.

Container Disposal: Empty containers, as defined by appropriate sections of the RCRA, are not RCRA hazardous wastes. However, insure proper management of any residuals remaining in container.

SECTION VIII  Control Measures

Respiratory Protection (Specify Type): Recommended where mists or vapor are possible.

Ventilation (Local/Mechanical/Special): Local

Protective Gloves: Impervious gloves

Eye Protection: Chemical splash goggles

Other Protective Clothing or Equipment: Body protective clothing and protective shoes are recommended

Work/Hygienic Practices: Eyewash fountains in the work place are recommended.

SECTION IX  Regulatory Information

The following Regulations are known to apply to the use and disposal of this product. Additional Federal, State and Local regulations may also be applicable.

SARA (Superfund Amendments and Reauthorization Act):

SARA 302 Extremely Hazardous Substances List (40 CFR 300): No components of this product are listed.

SARA 312 Hazard Category: Immediate (Acute) Health Hazard

SARA 313 Toxic Chemicals List: No Section 313 listed substances are present above the de minimus levels.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): No components of this product are listed.

RCRA (Resource Conservation and Reclamation Act) Listed Hazardous Wastes: No components of this product are listed.

CWA (Clean Water Act, 40 CFR 401.15) Listed Substances: No components of this product are listed.
FDA (Food and Drug Administration): This product is approved under the following FDA (21 CFR) sections: 176.300

TSCA (Toxic Substances Control Act) Applicability: Registered pesticides are exempt from the requirements of TSCA. All components may not be listed on TSCA Inventory.

FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act): This product is a registered pesticide. EPA Reg. No. 1448-70

HMIS/NPCA Ratings: Health 2; Flammability 0; Reactivity 1

NFPA Ratings: Health 2; Flammability 0; Reactivity 1

THE DATA IN THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN AND DOES NOT RELATE TO USE IN COMBINATION WITH ANY OTHER MATERIAL IN ANY Process. THE INFORMATION SET FORTH HEREIN IS FURNISHED FREE OF CHARGE AND IS BASED ON TECHNICAL DATA THAT NORTECH WATER & ENERGY, INC. BELIEVES TO BE RELIABLE. IT IS INTENDED FOR USE BY PERSONS HAVING TECHNICAL SKILL AND AT THEIR OWN DISCRETION AND RISK. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. NOTHING HEREIN IS TO BE TAKEN AS A LICENSE TO OPERATE UNDER OR A RECOMMENDATION TO INFRINGE ANY PATENTS.