

SAFETY DATA SHEET

SECTION 1

MATERIAL NAME / IDENTIFIER

Cartridge Cleaner Concentrate WHMIS: E

Manufacturer's Name: CAPO INDUSTRIES LTD
Street Address: 1200 CORPORATE DRIVE
City: BURLINGTON, ONTARIO
Postal Code: L7L 5R6

Emergency Telephone: Canutec (613) 996-6666 (Collect)

Chemical Name: Not applicable
Chemical Family: Not applicable
Chemical Formula: Proprietary blend
Trade Name & Synonyms: Not applicable
Molecular Weight: Not applicable
Material Use: Spa Cartridge Cleaner

SECTION 2

HAZARDS IDENTIFICATION

GHS classification: H302 Acute toxicity, Oral, Category 4
H314 Skin corrosion/irritation, Category 1B
H318 Serious eye damage/eye irritation, Category 1
H335 Specific target organ toxicity, Single exposure, Respiratory tract irritation, Category 3
H401 Hazardous to the aquatic environment, Acute Hazard, Category 2

Symbol(s)



Signal Word

Danger

Hazard statements

Harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation. Toxic to aquatic life.

Precautionary statements

Do not ingest. If ingested, drink 2 to 3 glasses of water to dilute. Do not induce vomiting. Seek immediate medical attention. Avoid skin and eye contact. Wear gloves and safety glasses when handling. Wash hands thoroughly after use. If in eyes, flush with copious amounts of water for 20 minutes and seek medical

SAFETY DATA SHEET

attention. Use in a well ventilated area. Avoid breathing in mists/vapours/fumes. If inhaled, remove person to fresh air and seek medical attention. Avoid release into the environment.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS#	% Concentration
Tetrasodium Ethylene Diamine Tetraacetate	64-02-8	1 - 5
Sodium Hydroxide	1310-73-20	3 – 7

SECTION 4 FIRST AID MEASURES

Inhalation:	If mists are inhaled, remove person to fresh air and seek medical attention.
Skin Contact:	Wash thoroughly with soap and water.
Eye Contact:	Flush eyes with copious amounts of water for 20 minutes. Seek medical attention if irritation persists.
Ingestion:	Drink 2 or 3 glasses of water to dilute and contact a physician immediately. Do not induce vomiting unless advised by a physician or poison control centre.
Note to physicians	Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower GI tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. Chemical eye burns may require extended irrigation. Obtain prompt consultation from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products:	CO, CO ₂ , nitrous oxide and smoke.
Unusual Fire or Explosion Hazards:	None known
Sensitivity to Mechanical Impact:	None
Rate of Burning:	Not applicable
Explosive Power:	Not applicable
Sensitivity to Static Discharge:	None
Fire Extinguishing Media:	Use media suitable to extinguish source of fire.
Instructions to the Fire Fighters:	Isolate and restrict area access. Product reacts with water. Reaction may

SAFETY DATA SHEET

Produce heat and/or gases. This reaction may be violent. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Contact with some metals (particularly magnesium, aluminum and galvanized zinc) can rapidly generate hydrogen.

Fire Fighting Protective Equipment: Wear full protective clothing and a full face piece self-contained breathing apparatus in positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Prevent entry into soil, ditches, sewers, waterways and/or groundwater. Isolate hazard area and restrict access. Dike area to contain spill. Dilute spill with large amounts of water and neutralize with dilute acid. Vacuum or sweep up neutralized material for proper disposal.

SECTION 7 HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid contact with skin, eyes and clothing. Do not ingest. Avoid inhalation of mists. Wear gloves and safety glasses and face shield when handling. Handle and open containers with care. Empty containers may contain hazardous product residues. Keep containers closed when not in use. Protect against physical damage.

Ventilation Requirements: Use in a well ventilated area.

STORAGE

Ventilation Requirements: Store in a cool, dry well ventilated area.

Storage Requirements: Keep away from heat and ignition sources. Place away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation to keep exposures within applicable limits.

PERSONAL PROTECTIVE EQUIPMENT

Skin Specify): PVC, neoprene or rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses/goggles, and face shield if eye contact is likely.

Respiratory (Specify): None in normal conditions. In non-ventilated areas wear a positive pressure supplied air respirator. In misty atmospheres, use an organic vapour respirator in combination

SAFETY DATA SHEET

with a dust/mist filter.

Other (Specify):

Eye wash and shower stations are close to work area.

SECTION 9

PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid X Solid

Odour & Appearance: Yellow-green liquid with characteristic odour.

Odour Threshold (ppm): Not available

Flammability: Yes No X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable

Upper Explosion Limit (% By Volume): Not applicable

Lower Explosion Limit (% By Volume): Not applicable

Decomposition Temp (°C) Not available

Specific Gravity: 1.110

Viscosity: Not available

Vapour Pressure (mm): Not available

Vapour Density (Air-1): Not available

Flashpoint (°C) Not applicable

Evaporation Rate Not available

Boiling Point (°C): 100°C

Freezing Point (°C): Not available

Solubility In Water (20°C): Soluble

% Volatile (By Weight) 81%

PH: 11.5 – 12.5 (1% solution)

Coefficient Of Water/Oil Distribution: Not available

SECTION 10

STABILITY AND REACTIVITY

Chemical Stability: Yes X No

If No, Under Which Conditions?:

Incompatibility To Other Substances: Yes X No

If So, Which Ones: Oxidizing compounds

Conditions to Avoid: None known

Hazardous Decomposition Products: CO and CO₂

SAFETY DATA SHEET

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: Mists are corrosive – causes burns to the respiratory tract.

Skin Contact: Corrosive – causes burns.

Eye Contact: Corrosive – causes burns.

Ingestion: This product may be harmful or fatal if swallowed.

CHRONIC HEALTH EFFECTS: None known

Other Health Effects: None known

LD 50 of Material (Specify Species and Routes): Tetrasodium Ethylene Diamine Tetraacetate (5%): 200 g/kg, Oral (Rat)

Sodium Hydroxide (7%): 7142.9 mg/kg, Dermal (Rabbit)

LC 50 of Material (Specify Species and Routes): Not available

Exposure (Limits): Sodium Hydroxide: 2 mg/m³ Ceiling Exposure Value, ACGIH and OSHA.

Irritancy of Material: Severe skin, eye and respiratory tract irritant.

Sensitization of Material: None known

Synergistic Materials: None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: Tetrasodium ethylene diamine tetraacetate has been reported to cause birth defects in animals at very high doses not expected in occupational exposure. These effects were observed at doses that were toxic to the mother.

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic life.

FISH

Sodium Hydroxide (7%) LC50 (Rainbow Trout): 2052 mg/l

LC50 (Chinook Salmon): 271 mg/l

Tetrasodium Ethylene Diamine Tetraacetate (5%) LC50 (Lepomis Macrochirus) 96 h, static: 820 mg/l

LC50 (Pimephales Promelas) 96 h, static: 1196 mg/l

FRESHWATER ALGAE

Tetrasodium Ethylene Diamine Tetraacetate (5%) EC50 (Desmodesmus Subspicatus) 72 h: 20.2 mg/l

SAFETY DATA SHEET

Environmental Fate

Biodegradability: Not available

Bioaccumulative Potential: Not available

Mobility In Soil: Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Deactivating Chemicals: Neutralize with dilute acetic acid to pH 6 to 9.

Waste Disposal: Dispose absorbed neutralized material in accordance with federal, provincial and local regulations.

Safe Handling of Residues: Flush with copious amounts of water and neutralize with dilute acetic acid.

Disposal of Packaging: Dispose of packaging in accordance with federal, provincial and local regulations.

SECTION 14 TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Sodium Hydroxide Solution

Class: 8

Packing group: II

UN: 1824

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Sodium Hydroxide Solution

Class: 8

Packing group: II

UN: 1824

SECTION 15 REGULATORY INFORMATION

CANADA

WHMIS: E

Canadian DSL Inventory: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

CPR Compliance: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SAFETY DATA SHEET

USA

TSCA Inventory: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

California Proposition 65: Not Listed

MA, New Jersey and Pennsylvania Right to Know Lists: Listed

CERCLA/SARA – Section 302: Tetrasodium Ethylene Diamine Tetraacetate: Not Listed

Sodium Hydroxide: Not Listed

SARA (311, 312) Hazard Class: Tetrasodium Ethylene Diamine Tetraacetate: Not Listed

Sodium Hydroxide: Listed

CERCLA/SARA – Section 313: Tetrasodium Ethylene Diamine Tetraacetate: Not Listed

Sodium Hydroxide: Not Listed

INTERNATIONAL Not available

SECTION 16

OTHER INFORMATION

Prepared By (Group, Department, Etc.): Quality Control Telephone: (905) 332-6626

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Additional Notes Or References:

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