



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: AVENGE CLEAN RINSE

CU24

Section 1: Product Information

Distributed By: Bridgepoint Systems, 4282 W 590 W, Salt Lake City, Utah 84123

Company Phone Number: 801-261-1282

Emergency Phone Number: 1-800-535-5053 (Infotrac)

Date Prepared: 02/01/2011

Hazard Rating (Zero=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

Fire: 0 Health: 1 Reactivity: 0

Section 2: Composition / Information or Ingredients

| Hazardous Ingredient | CAS | OSHA PEL | OSHA HAZARD |
|----------------------|---------|----------|-------------|
| EDTA | 64-02-8 | N/E | Acute |

Section 3: Hazard Identification

Emergency Overview

Appearance: Turquoise liquid

Odor: Lemon Scent

Flashpoint: >200°F

Hazard: Irritant

Eye Contact: May cause temporary eye irritation; injury to eye tissue unlikely

Skin Contact: Frequent or prolonged contact may cause temporary irritation. Skin contact may aggravate an existing dermatitis condition.

Inhalation: May cause temporary irritation.

Ingestion: Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause temporary injury.

HMIS Hazard Rating: Health 1 Flammability 0 Reactivity 0

Section 4: First Aid Measures

Eye Contact: Immediately irrigate with flowing water continuously for 15 minutes. If irritation persists consult medical personnel.

Skin Contact: Wash with soap and water. If irritation persists consult medical personnel.

Inhalation: Move to fresh air. If irritation persists consult medical personnel.

Ingestion: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If injured party is conscious, give two glasses of water. Seek medical attention.

Section 5: Fire-Fighting Measures

Flashpoint: >200°F

Upper Flammable Limit (% by volume): N/A

Autoignition Temperature: N/D

Lower Flammable Limit (% by volume): N/A

General Hazard: Irritant

Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool nearby containers and structures exposed to fire.

Hazardous Decomposition Products: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to carbon dioxide and carbon monoxide.

Section 6: Accidental Release Measures

Keep all unnecessary personnel away. Prevent additional discharge of material. Prevent liquid from entering sewers, watercourses, or low areas. Contain and absorb spilled liquid with sand or earth. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Section 7: Handling and Storage

Store out of reach of children; keep container closed; store in a cool well-ventilated place away from strong oxidizing or alkaline products. Avoid contact with skin and eyes. Use in a well-ventilated area; do not breathe vapors. Wash hands thoroughly after handling.

Section 8: Exposure Controls / Personal Protection

Engineering Controls: Normal room ventilation is satisfactory for limited use; keep away from heat and flame.

Eye Protection: Safety glasses

Skin Protection: Use gloves impervious to this material when prolonged or frequently repeated contact could occur.

Respiratory: No respiratory protection should be needed.

Exposure guidelines: N/E

Section 9: Physical and Chemical Properties

Appearance/Physical State: Light green liquid

Odor: Lemon scent

Vapor Pressure: N/D

Vapor Density: N/D

Boiling Point: N/D

Freezing Point: N/D

Density: N/D.

Solubility in Water: Soluble

RTU pH: 7.0 to 7.5

Section 10: Stability and Reactivity

Chemical stability: Stable

Incompatibility with other substances: Strong oxidizing or alkaline agents

Reactivity: Aluminum and other reactive metals

Hazardous Decomposition Products: Exposure to fire may liberate carbon dioxide, carbon monoxide, organic acids, and other unidentified thermal decomposition products from this product or its packaging.

Section 11: Toxicological Information

EDTA -Acute Toxicity

Ingestion

LD50, Rat, male 3,030 mg/kg

LD50, Rat, female 3,100 mg/kg

Skin Absorption

LD50, Rabbit > 5,000 mg/kg

Repeated Dose Toxicity

For the minor component(s): In animals, effects have been reported on the following organs: Kidney. In animals, has been shown to cause deposition of calcium salts in various urinary tract tissues.

Chronic Toxicity and Carcinogenicity

The trisodium salt of EDTA did not cause cancer in laboratory animals.

Developmental Toxicity

EDTA and its sodium salts have been reported to cause birth defects in laboratory animals only at exaggerated doses that were toxic to the mother. These effects are likely associated with zinc deficiency due to chelation.

Genetic Toxicology

Most data indicate that EDTA and its salts are not mutagenic. Minimal effects reported are likely due to trace metal deficiencies resulting from chelating by EDTA.

Section 12: Ecological Information

EDTA ENVIRONMENTAL FATE

Movement & Partitioning

Based on information for a similar material: Bioconcentration potential is low (BCF less than 100 or log Pow less than 3).

Persistence and Degradability

Biodegradation under aerobic laboratory conditions is below detectable limits (BOD20 or BOD28/ThOD < 2.5%).

Biological oxygen demand (BOD):

| BOD 5 | BOD 10 | BOD 20 | BOD 28 |
|-------|--------|--------|--------|
| 15% | 15% | 15% | |

Theoretical Oxygen Demand: 1.31 mg/mg

EDTA ECOTOXICITY

Material is practically non-toxic to fish on an acute basis (LC50 > 100 mg/L).

Fish Acute & Prolonged Toxicity

LC50, fathead minnow (*Pimephales promelas*): > 100 mg/L

Section 13: Disposal Considerations

Contain with chemical absorbent material. Do not dispose of on the land, in surface waters, or in storm drains. Small spills and waste may be flushed into a waste treatment sewer where local regulations permit. Larger quantities should be collected for reuse or consigned to a licensed hazardous waste hauler for disposal in accordance with federal, state and local regulations. **All disposal must be in accordance with all federal, state and local regulations.**

Section 14: Transportation Information

No restrictions for Ground, Air, or Maritime Transportation in accordance with 49 CFR parts 100-185.

Section 15: Regulatory Information

All components are listed on TSCA

Section 16: Other Information

This product has no established regulatory information. All regulatory information given is based on individual components of the mixture by component number. While this information and recommendations set forth herein are believed to be accurate and reliable, it is provided without warranty regarding its accuracy. BRIDGEPOINT SYSTEMS MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON. Users must determine safe conditions for use and assume liability for any loss, injury, damage or expense resulting from use of this product.

N/A= Not applicable N/D= Not determined N/E= Not established