

MATERIAL SAFETY DATA SHEET

Kitchen Sanitizer

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Kitchen Sanitizer

Synonyms: N/A

Product Number: PRO1345

Product Use: Kitchen Dish Machine Sanitizer

Manufacturer/Supplier: Enviroform Industries

7310 Adams St. #H

Paramount, CA 90723

USA

Phone Number: 877-694-6330

Emergency Phone: 800-424-9300 CHEMTREC

Date of Preparation: Mar 20, 2009

Date of Previous Version: September-5-2000

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING:

MAY CAUSE EYE DAMAGE. MAY CAUSE SEVERE SKIN IRRITATION.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, skin absorption, eye contact.

Eye: Causes eye burns. Eye exposure may cause severe and permanent eye injury (blindness).

Skin: Causes skin irritation. Prolonged exposure may result in skin burns and ulcerations. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

Ingestion: Harmful if swallowed. May cause burns to mouth, throat, and stomach.

Inhalation: Avoid inhalation of vapor, spray or mist. Over-exposure by inhalation may cause respiratory irritation. Liquid, spray or mist may produce tissue damage, particularly to mucous membranes of eyes, mouth and respiratory tract.

Chronic Effects: Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting, burns and cracking of the skin.

Medical Conditions Aggravated By Exposure: Certain pre-existing conditions may make workers particularly susceptible to the effects of this chemical: asthma, allergies.

Target Organs: Not available.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Environmental Effects: This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient(s) CAS # UN # Wt. %

SODIUM HYPOCHLORITE

7681-52-9

5-10%

Section 4: FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.

Skin Contact: Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Get medical attention if irritation develops.

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Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting unless directed to do

so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

Note to Physicians: Symptoms may be delayed.

Section 5: FIRE FIGHTING MEASURES

Flammability: Not flammable by WHMIS/OSHA criteria.

Means of Extinction:

Suitable Extinguishing Media: Powder, water spray, foam, carbon dioxide.

Unsuitable Extinguishing Media: Not available.

Hazardous Combustion Products: Oxides of carbon, chlorine gas.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: In case of fire and/or explosion do not breathe fumes. Firefighters should wear full protective clothing including self contained breathing apparatus.

Specific Hazards Arising from the Chemical: Avoid contact with undiluted product, may cause chemical burns. May cause copious foaming, avoid direct water spray.

Conditions to Avoid: Not available.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate area. Keep unnecessary personnel away.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas.

Methods for Containment: Prevent further leakage or spillage if safe to do so. Use sand, perlite or vermiculite as an absorbent for large spills of this material.

Methods for Clean-Up: Sweep up or gather material and place in appropriate container for disposal.

Other Information: Not available.

Section 7: HANDLING AND STORAGE

Handling:

Avoid contact with eyes. Avoid contact with skin. Do not swallow. Use only in a well-ventilated area. Handle and open container with care. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

Storage:

Keep out of the reach of children. Store in a closed container away from incompatible materials. Store in a cool, dry, well-ventilated area. Keep container tightly closed. Keep away from food, drink and animal feeds.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Exposure Limits

Ingredient(s) OSHA-PEL ACGIH-TLV

SODIUM HYPOCHLORITE ACGIH TLV (United States). TWA: 0.5 ppm 8 hour(s). Form: As Cl₂ STEL: 1 ppm 15 minute(s). Form: As Cl₂ OSHA PEL 1989 (United States). TWA: 1 ppm 8 hour(s). Form: As Cl₂ STEL: 3 ppm 15 minute(s). Form: As Cl₂

Engineering Controls: Provide adequate local exhaust ventilation to maintain worker exposure

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below exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Chemical splash goggles or face shield..

Hand Protection: Recommended: Rubber gloves. Neoprene gloves.

Skin and Body Protection: Wear appropriate protective clothing to prevent skin contact recommended synthetic apron.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations:

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Thin liquid.

Color: Light Yellow.

Odor: Light chlorine odor.

Odor Threshold: Not available.

Physical State: Thin liquid.

pH: 14

Viscosity: Not available.

Freezing Point: Not available.

Boiling Point: 212 °F.

Flash Point: > 212 °F (> 100 °C)

Evaporation Rate: Negligible.

Lower Flammability Limit: Not available.

Upper Flammability Limit: Not available.

Vapor Pressure: Negligible.

Vapor Density: >1 (Air = 1)

Specific Gravity: 1.13+/-0.5

Solubility in Water: Complete.

Coefficient of Water/Oil Distribution: Not available.

Auto-ignition Temperature: Not available.

Percent Volatile, wt. %: 0.

VOC content, wt. %: 0.

Molecular Weight: Not applicable.

Section 10: STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Conditions of Instability: None.

Conditions of Reactivity: Do not mix with other chemicals.

Incompatible Materials: Acids. Oxidizers.

Hazardous Decomposition Products: Oxides of carbon, chlorine gas.

Possibility of Hazardous Reactions: In contact with acids, oxidizers.

Spontaneous Polymerization: Will not occur.

Conditions to Avoid: Not available.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient(s) IDLH LD₅₀ (oral) LC₅₀

Detergent Surfactant Blend LD₅₀ Dermal Rat >2000 mg/kg

Sodium Hypochlorite LD₅₀ Dermal Rabbit >10000 mg/kg - LD₅₀ Oral Rat 8910 mg/kg

Eye: Can cause burns and damage to eyes. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

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Skin: May cause severe skin inflammation or chemical burns. Symptoms may include redness, edema, drying, defatting, burns, and cracking of the skin.

Ingestion: Not a normal route of exposure. May cause stomach distress, nausea or Vomiting and burns to esophagus or other mucous membranes.

Inhalation: Not a normal route of exposure. May cause respiratory tract irritation and burns.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: Not hazardous by WHMIS/OSHA criteria.

Carcinogenicity: Not hazardous by WHMIS/OSHA criteria.

Ingredient(s) Chemical Listed as Carcinogen or Potential Carcinogen *

* See Section 15 for more information.

Mutagenicity: Not hazardous by WHMIS/OSHA criteria.

Reproductive Effects: Not hazardous by WHMIS/OSHA criteria.

Developmental Effects:

Teratogenicity: Not hazardous by WHMIS/OSHA criteria.

Embryotoxicity: Not hazardous by WHMIS/OSHA criteria.

Respiratory Sensitization: Not hazardous by WHMIS/OSHA criteria.

Skin Sensitization: Not hazardous by WHMIS/OSHA criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Sodium Hypochlorite - Acute LC50 5.9 mg/L Fish - Minnows 96 hours

Other ingredients are not expected to produce significant eco-toxicity upon exposure to aquatic organisms and aquatic systems. Ingredients are expected to be >60-90% decomposed within 28 days.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

This material and its container must be disposed of in a safe way. Dispose in accordance with all applicable regulations. Wasted Code: D002 Classification: - [Hazardous waste]

Origin: - [RCRA waste.]

Section 14: TRANSPORTATION INFORMATION

United States (DOT)

N/A

Canada (TDG)

N/A

Mexico (NOM-004-SCT2-1994)

N/A

Section 15: REGULATORY INFORMATION

Federal Regulations

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

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

Mexico: MSDS prepared pursuant to NOM-018-STPS-2000.

SARA Title III

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Ingredient(s) Section 302

(EHS) TPQ (lbs.)

Section 304

EHS RQ (lbs.)

CERCLA

RQ (lbs.)

Section 313

None.

Clean Water Act (CWA) 311: Sodium Hypochlorite (RQ 100 lbs)

State Regulations

California Proposition 65:

This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories

Ingredient(s) Canada

DSL/NDSL

USA

TSCA

None

NFPA - National Fire Protection Association:

Health - 2 Fire - 0 Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification(s):

Class E - Corrosive

WHMIS Hazard Symbols:

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

3 - None.

Section 16: OTHER INFORMATION

Disclaimer:

The information and data contained herein is based upon facts considered to be correct as of the date hereof. Information is supplied upon the condition that the persons receiving will make their own determination as to its suitability for their purposes prior

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