

SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION & COMPANY INFORMATION

PRODUCT: Solid Dish Machine Detergent
ITEM: C-DS09
RECOMMENDED USE: Mechanical Warewash Detergent

24 HR. EMERGENCY TELEPHONE NUMBER:

Call CHEMTREC (800) 424-9300

SUPPLIER:

HD Chem
 707 W. 16th Street
 Long Beach, CA 90813
 NON-EMERGENCY TELEPHONE NUMBER: (888) 443-2436

| | |
|--------------|-----------|
| DATE ISSUED: | 4/17/2024 |
| SDS REF. No: | |

2. HAZARDS INGREDIENTS & IDENTIFICATION

GHS CLASSIFICATION:

Skin Corrosion Category 2
Eye Damage/Irritation Category 2A
Corrosive to Metals Category 1

GHS LABEL ELEMENT

Hazard Pictograms



SIGNAL WORD: DANGER

HAZARD STATEMENTS: Causes severe skin burns and serious eye damage.

PREVENTION:

Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE:

IF SWALLOWED: Do Not induce vomiting. Rinse mouth. Immediately drink 1 to 2 glasses of water or milk. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

If in EYES: In case of contact, immediately flush thoroughly with plenty of cool running water. Remove contact lenses if worn. Continue flushing for at least 15 minutes holding eyelids apart. If irritation persists, get medical attention promptly.

IF on SKIN (or HAIR): In case of contact, immediately flush thoroughly with plenty of cool running water for at least 15 minutes. Immediately remove contaminated clothing and shoes. Wash prior to reuse.

IF INHALED: If discomfort is experienced from exposure to spray mist, the person should employ respiratory protection or leave the contaminated area until proper ventilation is restored. Breathe fresh air. If irritation persists, get medical attention.

STORAGE: Store in a tightly closed container. Do not store near oxidizers, alkalies, acids and bleach. Do not mix with other chemicals. Store away from excessive heat.

DISPOSAL METHOD: Dispose of in accordance with all Local, State and Federal regulations.

EMPTY CONTAINER: Nonrefillable container. Do not reuse or refill container. Before discarding container, rinse thoroughly with water.

OTHER HAZARDS: None known.

3. PHYSICAL DATA/COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | Weight% |
|--|------------|---------|
| sodium carbonate | 497-19-8 | 40 - 70 |
| Silicic acid, sodium salt | 1344-09-8 | 10 - 25 |
| sodium hydroxide | 1310-73-2 | 20 - 30 |
| Silica dioxide | 7631-86-9 | < 1 |
| Sodium dichloro-s-triazinetriene dihydrate | 51580-86-0 | < 1 |
| Dimethicone emulsion | 9006-65-9 | < 1 |

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. HEALTH HAZARD DATA & FIRST AID MEASURES

EYES : Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. DO NOT attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used. Continue the flushing for an additional 15 minutes if the physician is not immediately available.

SKIN : Immediately remove contaminated clothing under safety shower. Flush all affected areas with large amounts of water for at least 15 minutes. DO NOT attempt to neutralize with chemical agents. Obtain medical advice immediately.

INGESTION : If swallowed, DO NOT INDUCE VOMITING. Immediately give large quantities of water or milk, if available. If vomiting does occur, give fluids again. Never give anything by mouth to an unconscious person. Call a physician or nearest Poison Control Center immediately.

INHALATION : Remove from contaminated atmosphere. If breathing has ceased, clear the victim's airway and start mouth-to-mouth artificial respiration, which may be supplemented by the use of a bag-mask respirator, or a manually-triggered, oxygen supply capable of delivering 1 liter/second or more. If the victim is breathing, oxygen may be administered from a demand-type or continuous-flow inhalator, preferably with a physician's advice. Contact a physician immediately.

EYES : Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. DO NOT attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used. Continue the flushing for an additional 15 minutes if the physician is not immediately available.

NOTES TO PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING & EXPLOSION DATA/MEASURES

SUITABLE EXTINGUISHING MEDIA: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water, Carbon Dioxide, Dry Chemical, Foam.

UNSUITABLE EXTINGUISHING MEDIA: None Known

SPECIFIC HAZARDS DURING FIRE FIGHTING: Not flammable or combustible.

HAZARDOUS COMBUSTION PRODUCTS: Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus.

FIRE FIGHTING EQUIPMENT : Use Self Contained Breathing Apparatus (SCBA) or NIOSH approved respirator and protective clothing.

FIRE FIGHTING PROCEDURES : Avoid breathing of vapors. Apply water spray to cool fire exposed containers and structures. Use water spray to disperse vapors.

GENERAL HAZARD : Dust may present explosion hazard. Practice good housekeeping.

FLASH POINT AND METHOD : None

FLAMMABLE LIMITS : None

AUTOIGNITION TEMPERATURE : N/A

FLAMMABLE CLASS : N/A

OTHER CONSIDERATIONS : None

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCDURES: Ensure adequate ventilation. Keep people away from upwind spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up spill and place in a proper waste disposal container for disposal.

ENVIRONMENTAL PRECAUTIONS: Do not allow contact with soil, surface, or ground water.

7. PRECAUTIONS FOR SAFE HANDLING/STORAGE/USE

SAFE HANDLING: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

GENERAL PROCEDURES : Store in a tightly closed container. Do not store near oxidizers, alkalies, acids and bleach. Do not mix with other chemicals. Store away from excessive heat.

Do not freeze. Keep away from food stuffs. Keep out of reach of children.

STORAGE TEMPERATURE: 0 °C to 50 °C

8. EXPOSURE CONTROLS\PERSONAL PROTECTION (PPE)

INGREDIENTS WITH WORKPLACE CONTROL PARAMETERS

| Hazardous Components | CAS Number | Form of Exposure | Permissible Concentration |
|---------------------------|------------|------------------|---------------------------|
| sodium hydroxide | 1310-73-2 | TLV Ceiling | 2mg/m3 |
| Sodium carbonate | 497-19-8 | TLV | 3 mg/m3 |
| Silicic Acid, Sodium Salt | 1344-09-8 | TWA | 2 mg/m3 |

OSHA TABLE COMMENTS: NL = Not Listed

ENGINEERING CONTROLS: Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: Safety Splash Monogoggles / Face Shield.

SKIN: Solvent resistant gloves, boots and clothing.

RESPIRATORY: None needed for normal clean up. If mist or vapor may be generated, a Self Contained Breathing Apparatus (SCBA) or NIOSH approved respirator is advised.

WORK HYGIENIC PRACTICES: Avoid accidental spills on skin, wash after use. Wash contaminated clothing prior to reuse.

OTHER USE PRECAUTIONS: Have clean water available for washing. Provide adequate ventilation or use mechanical devices.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|-------------------|
| APPEARANCE/PHYSICAL STATE: | Solid |
| COLOR: | White Powder |
| ODOR: | Chlorine |
| pH (1% sol): | 13.5 |
| FLASH POINT: | None |
| ODOR THRESHOLD: | No Data Available |
| MELTING POINT/FREEZING POINT: | No Data Available |
| BOILING POINT: | No Data Available |
| EVAPORATION RATE: | No Data Available |
| FLAMMABILITY (SOLID, GAS): | No Data Available |
| UPPER EXPLOSION LIMIT: | No Data Available |
| SPECIFIC GRAVITY: | No Data Available |
| LOWER EXPLOSION LIMIT: | No Data Available |
| VAPOR PRESSURE: | No Data Available |
| RELATIVE VAPOR DENSITY: | No Data Available |
| RELATIVE DENSITY: | No Data Available |
| WATER SOLUBILITY: | 100% |
| SOLUBILITY IN OTHER SOLVENTS: | No Data Available |
| PARTITION COEFFICIENT: N-OCTANOLI/WATER: | No Data Available |
| AUTOIGNITION TEMPERATURE: | No Data Available |
| THERMAL DECOMPOSITION: | No Data Available |
| VISCOSITY, KINEMATIC: | No Data Available |
| EXPLOSIVE PROPERTIES: | No Data Available |
| OXIDIZING PROPERTIES: | No Data Available |
| MOLECULAR WEIGHT: | No Data Available |
| VOC: | No Data Available |

10. STABILITY AND REACTIVITY

STABILITY : Stable

HAZARDOUS POLYMERIZATION : Will NOT Occur

CONDITIONS TO AVOID : Strong oxidizers, acids, ammonia

POLYMERIZATION : Will NOT Occur

HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur dioxide & hydrogen sulfide

INCOMPATIBLE MATERIALS : Strong oxidizers

11. TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

Inhalation, Ingestion, Eye contact, Skin contact.

SYMPTOMS OF EXPOSURE:

Eye Contact:

Causes eye irritation.

Skin Contact:

May cause irritation.

Ingestion:

Pain, nausea, vomiting and diarrhea

Inhalation:

May cause nasal discomfort and coughing.

IMMEDIATE, DELAYED, CHRONIC EFFECTS:

Product Information: Data not available for insufficient for classification.

TARGET ORGAN EFFECTS:

Eyes. Respiratory System. Skin. Blood. Central Nervous System. Hematopoietic System. Kidney. Liver.

NUMERICAL MEASURES OF TOXICITY:

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

| Chemical Name | CAS Number | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|------------|-----------------------|-------------------|--|
| Sodium hydroxide | 1310-73-2 | 140 – 340 mg/kg (rat) | 1350 mg/kg (rat) | Not available |
| Sodium carbonate | 497-19-8 | 4090 mg/kg (rat) | Not available | 800 mg/m3 (rat) 24 hr |
| Silicic acid, sodium salt | 1344-09-8 | 3400 mg/kg (rat) | >5000 mg/kg (rat) | > 2.06 mg/L (rat) 4 hr |
| Sodium dichloro-s-triazinetriene dihydrate | 51580-86-0 | 1823 kg (rat) | >2000 mg/kg (rat) | > 0.27 - < 1.17 mg/L(4hr - Rat)0.6 mg/L (4 hr - Rat) |

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

ECOTOXICITY

| Chemical Name (CAS) | Algae/Aquatic Plants | Fish | Toxicity to Microorganisms | Crustacea |
|---------------------------------------|----------------------|------------------------------|----------------------------|------------------------------------|
| Sodium hydroxide (1310-73-2) | Not available | 125 mg/L 96 hr bluegill LC50 | 22 mg/L 15 min | 40.4 mg/L 48 hr Daphnia Magna EC50 |
| Sodium carbonate (497-19-8) | Not available | 300 mg/L 96 hr Bluegill LC50 | Not available | Not available |
| Silicic acid, sodium salt (1344-09-8) | Not available | 1108 mg/L Bluegill LC50 | Not available | 1700 mg/L 48 hr Daphnia Magna EC50 |

| | | | | |
|---|---------------|--|---------------|--|
| Sodium dichloro-s-triazinetriene dihydrate (51580-86-0) | Not available | LC50 Bluegill sunfish: 0.25-1.0 mg/L (96 hour) LC50 Rainbow trout: 0.13-0.36 mg/L (96 hour) LC50 Inland silversides: 1.21 mg/L (96 hour) | Not available | LC50 Water flea: 0.196 mg/L (48 hour) LC50 Mysid shrimp: 1.65 mg/L (96 hour) |
|---|---------------|--|---------------|--|

Persistence and Degradability: No Information Available

Bioaccumulation: No Information Available

Other Adverse Effects: No Information Available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with all Local, State and Federal regulations.

EMPTY CONTAINER: Nonrefillable container. Do not reuse or refill container. Before discarding container, rinse thoroughly with water.

RCRA/EPA WASTE INFORMATION: N/A

14. TRANSPORT INFORMATION

THE SHIPPER/CONSIGNOR/SENDER IS RESPONSIBLE TO ENSURE THAT THE PACKAGING, LABELING, AND MARKINGS ARE IN COMPLIANCE WITH THE SELECTED MODE OF TRANSPORT.

DOT (DEPARTMENT OF TRANSPORTATION)

LAND TRANSPORT:

PACKAGE SIZE: 100 Lbs. or Less

DOT DESCRIPTION: Compounds, Cleaning Solid

DOT LABEL: None

DOT PLACARD: None

PACKAGE SIZE: 100 Lbs. or Larger

UN NUMBER: UN 1759

UN PROPER SHIPPING NAME: Corrosive solids, n.o.s.

(contains sodium hydroxide) [ERG #154]

TRANSPORT HAZARD CLASS: Corrosive 8

TRANSPORT HAZARD SUBCLASS: N/A

PACKING GROUP: PG II

DOT LABEL: Corrosive 8

DOT PLACARD: Corrosive 8 (1001 Lbs. or More)

MARINE POLLUTANT Y/N: No

SEA TRANSPORT (IMDG/IMO):

PACKAGE SIZE: 100 Lbs. or Less

DOT DESCRIPTION: Compounds, Cleaning Solid

DOT LABEL: None

DOT PLACARD: None

PACKAGE SIZE: 100 Lbs. or Larger

UN NUMBER: UN 1759

UN PROPER SHIPPING NAME: Corrosive solids, n.o.s. (contains

sodium hydroxide) [ERG #154]

TRANSPORT HAZARD CLASS: Corrosive 8

TRANSPORT HAZARD SUBCLASS: N/A

PACKING GROUP: PG II

DOT LABEL: Corrosive 8

DOT PLACARD: Corrosive 8 (1001 Lbs. or More)

MARINE POLLUTANT Y/N: No

15. REGULATORY INFORMATION

EPCRA – EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW

CERCLA REPORTABLE QUANTITY

| Hazardous Components | CAS Number | Component RQ (Lbs.) | Calculated Component RQ (lbs.) |
|----------------------|------------|---------------------|--------------------------------|
| sodium hydroxide | 1310-73-2 | 1,000 | 22,222 |

UNITED STATES:

SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SARA 304 EXTREMELY HAZARDOUS SUBSTANCES REPORTABLE QUANTITY:

This material does not contain any components with section 304 EHS RQ.

SARA 311/312 Hazards:

Acute Health Hazard

SARA 302:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313:

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

CALIFORNIA PROP 65

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

16. OTHER INFORMATION

NFPA
HMIS

Health Hazards: 3
Health Hazards: 3

Flammability: 0
Flammability: 0

Instability: 1
Physical Hazards: 0

Special: N/A
Reactivity: 1

Revision Date: 12/20/2019

Reasons For Revision: No Information Available

MANUFACTURER DISCLAIMER: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

---- End of Safety Data Sheet ----