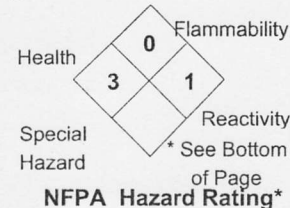


# MATERIAL SAFETY DATA SHEET

# 14285

Manufactured by:

**SURFLEX**  
SERIES**Anderson  
Chemical Company**325 SOUTH DAVIS AVENUE  
LITCHFIELD, MINNESOTA 55355  
(320) 693-2477

NFPA Hazard Rating\*

Product Name: **HD Dishmachine Detergent**

24-HOUR EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC)

Revised: 4/7/2010 lmt  
Supersedes: 11/24/2008

## I. IDENTIFICATION

**Chemical Name And Synonyms:**

Warewashing Detergent

**DOT Shipping Name**Compounds, Cleaning Liquid  
(Sodium Hydroxide/Sodium Hypochlorite)**Chemical Family:**

Alkali

**DOT Hazard Class & I.D. Number**

Corrosive Material NA1760

# PG  
8 II

## II. HAZARDOUS INGREDIENTS

| Component           | CAS NO.   | %  | TLV     | PEL | Toxic | Hazard                                       |
|---------------------|-----------|----|---------|-----|-------|----------------------------------------------|
| Sodium hydroxide    | 1310-73-2 | 13 | 2 mg/M3 |     | NA    | Corrosive to skin and eyes.                  |
| Sodium hypochlorite | 7681-52-9 | 3  |         |     | NA    | Irritant to skin, eyes and mucous membranes. |
| Trade Secret        | TSRN 2398 |    | NE      | NE  | NA    | Slight eye irritant.                         |
| Trade Secret        | TSRN 1800 |    | NE      | NE  | NA    | May cause eye irritation.                    |

\*\*Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372).

NA: Not applicable  
NE: Not established

## III. PHYSICAL DATA

**Boiling Point:** About 212° F.  
**Specific Gravity:** 1.212  
**Appearance:** Yellow liquid**Form:** Liquid  
**Solubility In Water:** Complete  
**Odor:** Slight chlorine odor  
**pH, 1% Soln.:** 12.5  
**pH, 1% Soln.:** 12.15

## IV. FIRE AND EXPLOSION HAZARD DATA

**Flashpoint:** Not Applicable**Extinguishing Media:** Not applicable**Special Fire Fighting Procedures:** Although this product is not combustible, if a fire occurs in the near vicinity, good firefighting practice dictates the use of self-contained breathing apparatus and other protective gear. Cool fire-exposed containers with water. Move fire exposed containers if it can be done without risk.**Unusual Fire And Explosion Hazards:** If the stock solution container breaks, the product should be handled with care as it is corrosive.

## V. HEALTH HAZARD DATA

**Carcinogenic:** The raw materials used in this product are not considered to be a carcinogen by ACGIH and OSHA.**Effects Of Over-exposure:** Corrosive. Causes irritation (possibly severe), burns to the eyes. May cause permanent eye damage. Causes irritation (possibly severe), burns to the skin. Causes irritation (possibly severe), nausea, vomiting to the gastrointestinal tract. The severity of effects depend on concentration and how soon after exposure the area is washed.**Emergency And First Aid Procedures:** Eyes: Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. Get immediate medical attention.

Skin: Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse. Discard contaminated leather goods.

Ingestion: Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.

\* NFPA/HMIS Degree or Hazard: 4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant.

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HMIS A. Safety Glasses B. Safety Glasses, Gloves C. Safety Glasses, Gloves, Apron D. Face Shield, Gloves, Apron E. Safety Glasses, Gloves, Dust Respirator F. Safety Glasses, Gloves, Apron, Dust Respirator G. Safety Glasses, Gloves, Vapor Respirator H. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor and Dust Respirator K. Air Line, Hood or Mask, Gloves, Full Suit, Boots X. Ask your supervisor for guidance.

## VI. REACTIVITY DATA

**Stability - Unstable:**

**Stable: x**

**Conditions To Avoid:** Mixing with water, acid or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas.

**Incompatibility:** Acids, halogenated compounds, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali (Materials to Avoid) sensitive metals or alloys. Avoid contact with leather, wool, organic nitro compounds. Reacts with strong acids and will

**Hazardous** Toxic fumes of sodium oxide.

**Decomposition Products:**

## VII. SPILL OR LEAK PROCEDURES

**Steps To Be Taken In Case Material Is Released Or Spilled:**

Small spills can be diluted with a large amount of water and flushed to sanitary sewer. For large spills, wear appropriate personal protection equipment. Completely contain spilled material with dikes or sandbags, etc., and prevent run-off into ground or surface waters or sewers. Recover as much material as possible into containers for disposal or reuse.

Remaining material may be diluted with water; neutralize chlorine by adding sodium sulfite, sodium bisulfite or sodium thiosulfate; then neutralize alkalinity by adding a dilute acid. Flush spill area with water followed by a liberal covering of sodium bicarbonate. Neutralization products, both solid and liquid, must be recovered for disposal.

**Waste Disposal Method:** Dispose of in accordance with Federal, State, and local regulations.

## VIII. SPECIAL PROTECTION INFORMATION

**Respiratory Protection:** Respiratory protection is not required for normal use. If mist/dust level is high, wear NIOSH approved respirator.

**Ventilation:** Should be adequate to keep mist level below the TLV.

**Protective Gloves:** Rubber or chemical resistant.

**Eye Protection:** Safety glasses with side shields. Chemical goggles, face shield if appropriate.

**Protective Clothing:** In situations where contact with can be anticipated, protective clothing should be worn. Contaminated clothing should be removed, then discarded or laundered. Suggested materials are natural rubber, neoprene or nitrile.

## IX. SPECIAL PRECAUTIONS

**Precautions To Be Taken In Handling And Storing:**

Do not get in eyes, on skin, or clothing. Do not breathe vapors or mists. Do not ingest. Wash thoroughly after handling. Use with adequate ventilation. Wear protective clothing/equipment as needed for use situation. Keep containers tightly closed and properly labeled. Store in a cool, dry, well-ventilated area. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages, tobacco in areas where this product is stored. Containers that have been emptied will retain product residue and should be handled as if they were full.

**Other Precautions** Safety shower and eyewash stations should be provided in the areas where this product is handled.

## X. REVISED INFORMATION

**MSDS Status:** Supplier update

The opinions expressed herein are those of qualified experts within ANDERSON Chemical Company. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of ANDERSON Chemical Company, it is the user's obligation to determine the conditions of safe use of the product.