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**MATERIAL SAFETY DATA SHEET**

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Revised 2/02/04  
Replaces 8/12/03  
Printed 2/03/04

**THERMO SPREX****MSDS ID: 04467**

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**I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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Product Name: THERMO SPREX

Product Descriptor: ALKALINE HEAVY DUTY CLEANER

MANUFACTURER: JOHNSON DIVERSEY, INC.

EMERGENCY PHONE NUMBER: (800) 851-7145

3630 E. KEMPER ROAD

CINCINNATI, OH. 45241

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**II. HAZARDOUS COMPONENTS**

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| Component Name   | CAS Number | %    | Exposure Limits | Units |
|------------------|------------|------|-----------------|-------|
| SODIUM HYDROXIDE | 1310-73-2  | >30% | TLV-C 2         | MG/M3 |

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**III. HAZARDS IDENTIFICATION**

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**EMERGENCY OVERVIEW:**

**CORROSIVE** - Contains strong alkali. Causes severe burn to skin and eyes. May be fatal if swallowed. Do not contact eyes, skin or clothing. Wear goggles, face shield, rubber gloves, and protective clothing and boots when handling product. Avoid breathing dust or spray mist. Contain spill or runoff, which may cause environmental damage. Contact with aluminum or soft metals may release flammable hydrogen fumes.

**POSSIBLE ROUTES OF ENTRY:** Inhalation and ingestion.**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**ACUTE:** **EYES:** Severe burns, tissue damage, or irritation with pain, swelling, blurred or impaired vision, blindness. **SKIN:** Severe burns, tissue destruction, blisters or rash with swelling and pain. **INGESTION:** May be fatal. Severe burns to mouth and throat may result with pain, gastric perforation and difficulty in swallowing or breathing. **INHALATION:** Dust causes burns or severe irritation to nose, throat, and respiratory tract with pain, choking, and breathing difficulty.

**CHRONIC:** Same as acute effects.**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Dermatitis or sensitive skin.**TARGET ORGAN(S) OF CHEMICAL HAZARD(S):** Eyes, skin, respiratory tract, and gastrointestinal tract.

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**IV. FIRST AID MEASURES**

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**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart to completely flush all chemicals from entire eye surface. Get immediate medical attention.

**SKIN:** Promptly flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and footwear. Launder contaminated clothing and discard or thoroughly clean shoes before

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**IV. FIRST AID MEASURES (Cont.)**

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reuse. Get medical attention for painful, red or injured skin areas.

INGESTION: If swallowed, rinse mouth with water. Dilute by drinking several glasses of water. DO NOT induce vomiting. If patient vomits, rerinse mouth. Get immediate medical attention. NOTE: Never give fluids by mouth to an unconscious person.

INHALATION: If inhaled, move to fresh air. If patient is not breathing, give artificial respiration. If breathing is difficult, give oxygen under the direction of trained personnel or a physician. Get immediate medical attention.

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**V. FIRE FIGHTING MEASURES**

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FLASH POINT (degrees F): NONE FLAME EXTENSION: N/A  
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: N/A UEL: N/A  
UNUSUAL FIRE OR EXPLOSIVE HAZARDS: Toxic fumes or vapor may form during fire.  
EXTINGUISHING MEDIA: Water spray, CO2, foam or dry powder.  
FIRE FIGHTING INSTRUCTIONS: Wear full protective gear and positive pressure breathing apparatus SCBA) in fire area.  
SPECIAL INSTRUCTIONS: Spilled product may cause slippery surface and fall hazard.

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**VI. ACCIDENTAL RELEASE MEASURES**

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IF MATERIAL IS RELEASED OR SPILLED:  
Contain spilled solids. Wear protective clothing. Sweep or shovel solids or powder into a non-reactive chemical waste container. Dispose of materials in accordance with local, State and Federal regulations. Flush spill area with water.  
The Reportable Quantity (RQ) of Sodium Hydroxide, CAS #1310-73-2 is 2,222 lbs.  
The Reportable Quantity (RQ) of Sodium Dodecylbenzene Sulfonate, CAS #25155-30-0 is 5,000 lbs.

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**VII. HANDLING AND STORAGE**

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HANDLING AND STORAGE PRECAUTIONS: STRONG CAUSTIC SOLID. Wear protective gear when using or handling. Product absorbs moisture. Keep container closed when not in use. Add product slowly with mixing to water or liquids to avoid heat, steam or spattering. Do not allow product to collect in bottom of tank to prevent violent reaction.

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**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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EYE/FACE PROTECTION: Safety glasses with side shields.  
PROTECTIVE GLOVES: Alkali resistant.  
RESPIRATORY PROTECTION: Not normally required.  
OTHER PROTECTIVE CLOTHING/EQUIPMENT: Long sleeved shirt and clothing to cover exposed skin if contact hazard exists. Wear chemical resistant apron when handling.  
ENGINEERING CONTROLS:

THERMO SPREX

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## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont.)

VENTILATION: None required.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Brown granular powder, mild odor.

|                                     |                      |
|-------------------------------------|----------------------|
| BOILING POINT (DEG F): N/A          | FREEZING POINT: N/A  |
| SPECIFIC GRAVITY/BULK DENSITY: 1.15 |                      |
| pH: N/A                             | pH 1% SOLUTION: 12.5 |
| VOLATILE BY VOLUME: 0               |                      |
| SOLUBILITY IN WATER: Soluble        |                      |
| VAPOR PRESSURE(mmHg): N/A at N/A    | VAPOR DENSITY: N/A   |

## X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Product stable.  
INCOMPATIBILITY WITH OTHER MATERIALS: Corrosive to aluminum and soft metals.  
May remove paint and coatings; Acids; Flammable liquids; Organic halogens  
HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion forms; oxides of sodium  
HAZARDOUS POLYMERIZATION: None known.

## XI. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING: Toxicological testing has not been performed on the product. Listed below is the available toxicology test data for components of the product.

## TOXICITY TEST DATA:

## Sodium Hydroxide:

|                          |                   |
|--------------------------|-------------------|
| Acute Oral LD50 (rat)    | 500 mg/kg (RTECS) |
| Acute Skin LD50 (rabbit) | 1350 mg/kg (MSI)  |

## SODIUM CARBONATE:

|                                    |                                      |
|------------------------------------|--------------------------------------|
| Acute Oral LD50 (rat)              | - 4090 mg/kg (RTECS)                 |
| Acute Inhalation LC50 (rat, 2 hr.) | - 2.3 mg/l (Env. Res. 31:138 (1983)) |

## XII. ECOLOGICAL INFORMATION

Toxicological testing has not been performed on the product. Listed below is the available toxicology test data for components of the product.

## ECOTOXICITY TEST DATA:

## Sodium Carbonate:

|                                           |              |
|-------------------------------------------|--------------|
| Acute LC50 (48 Hr.) (Daphnia magna)       | 265-565 mg/l |
| Acute LC50 (96 Hr.) (Lepomis macrochirus) | 300-325 mg/l |

ENVIRONMENTAL FATE: No data available.

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**XIII. DISPOSAL CONSIDERATIONS**

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RCRA REGULATED: Concentrated product would be considered D002- corrosive if declared hazardous waste.

Spent or excess product is hazardous waste. Do not discharge to sewer or environment. Arrange disposal through a licensed disposal company or treat by special Waste Disposal Sheet. Recycle or dispose of containers by product labeling or governmental regulations.

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**XIV. TRANSPORT INFORMATION**

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Please refer to the Bill of Lading/receiving documents for up to date shipping information.

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**XV. REGULATORY INFORMATION**

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U.S. Federal Regulations:

TSCA: All ingredients in this product are on TSCA inventory.

HAPS: NONE

VOC CONTENT (EPA Method 24A): % VOC: 0 Lb/Gal VOC: 0

CERCLA/EPCRA:

Section 313 Toxic Chemicals:

NONE

SARA Section 311/312:

ACUTE:YES CHRONIC:NO FIRE:NO REACTIVITY:YES

SUDDEN RELEASE OF PRESSURE:NO

LISTED CARCINOGEN: NONE

NTP: NO IARC: NO OSHA: NO

HMIS RATINGS: HEALTH: 3 FIRE: 0 REACTIVITY: 1

PERSONAL PROTECTIVE EQUIPMENT: C

NFPA RATING: HEALTH: 3 FIRE: 0 REACTIVITY:1 SPECIAL:ALKALI

STATE RIGHT-TO-KNOW INFORMATION:

SODIUM HYDROXIDE - CAS #1310-73-2

SODIUM CARBONATE - CAS #497-19-8

SODIUM GLUCONATE - CAS #527-07-1

SODIUM DODECYLBENZENE SULFONATE - CAS #25155-30-0

SODIUM LIGNOSULFONATE - CAS #8061-51-6

CALIFORNIA PROPOSITION 65:

None of the ingredients are on the California proposition 65 list.

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**XVI. OTHER INFORMATION**

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Disclaimer: The information contained in this material safety data sheet is based on the knowledge of this specific product and current national legislation. It applies to the product as sold, use dilutions may be less hazardous. It may not be valid for this material if used in combination with any other materials or in a process. It is the user's responsibility to evaluate the handling, and use.