



MATERIAL SAFETY DATA SHEET

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|--------------|------------------------------|------|------------|
| PRODUCT NAME | Reliance Disinfectant Bleach | PACK | 6 / 1 gal. |
| PRODUCT CODE | 4000147 | | |

EMERGENCY TELEPHONE NUMBERS

| | |
|------------|----------|
| ISSUE DATE | 07-24-08 |
|------------|----------|

MANUFACTURER Sysco Corporation
STREET ADDRESS 1390 Enclave Parkway
CITY, STATE, ZIP Houston, Texas 77077

Medical Information: (800) 285-6008
Transportation: (800) 424-9300 *
* For spill, leak, fire or transport accident emergencies.
Product Information: (281) 584-1790

SECTION 2 -- COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT

EXPOSURE LIMITS

| * -- (see note below) | CAS No. | % by wt. | OSHA PEL | ACGIH TLV | NIOSH REL |
|-----------------------|-----------|-------------|-----------------|-----------------|-----------------|
| * Sodium hypochlorite | 7681-52-9 | 5.00 – 6.00 | Not established | Not established | Not established |
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* -- Asterisked ingredients are those considered hazardous according to the criteria of 29CFR 1910.1200.
Other ingredients are listed for informational purposes to assist emergency medical response personnel.

SECTION 3 -- HAZARDS IDENTIFICATION

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| EMERGENCY OVERVIEW | Corrosive; may cause severe skin and eye irritation or chemical burns to broken skin. Vapors extremely irritating to eyes and respiratory tract. Harmful and potentially fatal if swallowed. |
| POTENTIAL HEALTH EFFECTS | |
| INGESTION | Can cause corrosion of mucous membranes, severe esophageal burns and perforation of esophagus or stomach. |
| INHALATION | Inhalation of vapors can cause bronchial irritation, coughing, difficulty in breathing, nausea and pulmonary edema. |
| EYE CONTACT | Corrosive to the eyes; may cause severe and permanent damage. |
| SKIN CONTACT | Severe irritant; contact can produce blistering and eczema. |

SECTION 4 -- FIRST AID MEASURES

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| INGESTION | If swallowed, DO NOT induce vomiting. Immediately drink a glass of water, if able to swallow. Probable mucosal damage may contraindicate the use of gastric lavage. Call a physician or poison control center immediately. |
| INHALATION | If exposed to excessive vapor levels, remove person to fresh air and seek medical attention if cough or other symptoms develop. If person is not breathing, call 911 or an ambulance, then give artificial respiration. Call a poison control center for treatment advice. |
| EYE CONTACT | Immediately flush eye by holding open and rinsing slowly and gently with plenty of cool, running water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center, and get immediate medical attention. |
| SKIN CONTACT | Flush affected skin area with copious amounts of water and wash with soap and water for 15-20 minutes. If irritation develops or persists, get medical attention. Remove contaminated clothing and wash before reuse. Call a poison control center for treatment advice. |
| NOTE TO PHYSICIAN | Information pertaining to ingestion toxicology, therapy, symptomatology and treatment can be found in <u>Clinical Toxicology of Commercial Products</u> , authored by Gosselin, Smith and Hodge and published by Williams & Wilkins, Baltimore, Maryland. See listing for Hypochlorite in Therapeutics Index, Section III. |

SECTION 5 -- FIRE FIGHTING MEASURES

| | | | |
|----------------------------------|--|------------------|------------------------------|
| FLASH POINT / METHOD | None / N.A. | FLAMMABLE LIMITS | Not flammable or combustible |
| EXTINGUISHING MEDIA | If involved in a fire, alcohol foam, carbon dioxide, dry chemical or water fog. Use extinguishing media that is appropriate for surrounding fire. | | |
| SPECIAL FIRE FIGHTING PROCEDURES | Avoid fumes from spilled or exposed liquid. Firefighters should wear full protective clothing and OSHA/NIOSH self-contained breathing apparatus. Cool fire-exposed containers with water spray from a safe distance. | | |
| FIRE AND EXPLOSION HAZARDS | Sodium hypochlorite bleach is a strong oxidizing agent and decomposes when heated. Decomposition products may cause containers to explode. Vigorous reactions may occur with organic materials or oxidizable materials, causing fires. | | |

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

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| RESPONSE TO SPILLS | Small spills: Dilute product by flooding area with large quantity of water and flush to sanitary sewer. Large spills: Contain run-off by diking with suitable material. Soak up liquid on inert absorbent and transfer to approved container. Prevent spill from entering sewers or waterways. |
|--------------------|---|

SECTION 7 -- HANDLING AND STORAGE

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| HANDLING PRECAUTIONS | Wash after handling and before eating. Use personal protective equipment and wear suitable chemical-resistant clothing. Keep container tightly closed when not in use. Follow label directions closely. |
| STORAGE PRECAUTIONS | Store upright in a cool (below 85 F), dry, well-ventilated area. Keep away from heat or direct sunlight. Separate from incompatible materials, such as acids, ammonia, soap-based products or organic materials. Protect containers from physical damage. Keep away from children. |

SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION

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| HYGIENIC PRACTICES | Avoid breathing vapors. Do not store near food stuffs, water or feed. Protect eyes, skin and clothing from contact with this product. |
| ENGINEERING CONTROLS | Use local ventilation to remove vapors at the source. Facilities using this product must be equipped with an eyewash station. |

PERSONAL PROTECTIVE EQUIPMENT

| | | |
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| X | RESPIRATOR | Not normally necessary; use NIOSH approved respirator for concentrated vapors |
| X | GOGGLES / FACE SHIELD | Required; goggles should be chemical splash type. Face shield also helpful. |
| X | APRON | Recommended to avoid skin contact and protect clothing from damage |
| X | GLOVES | Required; use impervious PVC or Neoprene with long gauntlet |
| X | BOOTS | Recommended to protect shoes and feet when using product for floor cleaning |

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------|--------------------------|------------------|-------------------|
| APPEARANCE | Clear pale yellow liquid | BOILING POINT | 212 deg F |
| ODOR | Chlorine | FREEZING POINT | 28 deg F |
| pH | 12.0 - 12.8 | VAPOR PRESSURE | 17.5 mm Hg @ 20 C |
| SPECIFIC GRAVITY | 1.080 | VAPOR DENSITY | Not applicable |
| SOLUBILITY IN WATER | Complete | EVAPORATION RATE | Not applicable |

SECTION 10 -- STABILITY AND REACTIVITY

| | | | | | | |
|-------------------------------------|---|----------------|---|--|-----------|--|
| CHEMICAL STABILITY | | STABLE | X | | UNSTABLE | |
| CONDITIONS TO AVOID | Heat or direct sunlight; temperatures above 85 F. Do not mix with solutions containing ammonia. | | | | | |
| INCOMPATIBILITY | Acids, ammonia, ether, urea, oxidizable materials, soaps, oils, greases, phenolic disinfectants and metals (including nickel, copper, tin, aluminum and iron). | | | | | |
| HAZARDOUS PRODUCTS OF DECOMPOSITION | Chlorine gas -- from contact with highly acidic materials. Chloramines -- from contact with ammonia. Polychlorinated phenols -- from contact with phenolic disinfectants. | | | | | |
| POLYMERIZATION | | WILL NOT OCCUR | X | | MAY OCCUR | |
| CONDITIONS TO AVOID | Not applicable | | | | | |

SECTION 11 -- TOXICOLOGICAL INFORMATION

CARCINOGENICITY

| | |
|---|---|
| | THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN |
| X | THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910, Z |

OTHER EFFECTS

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| ACUTE | Toxicity arises from corrosive activity; stems from oxidizing potency, a function of concentration |
| CHRONIC | Not determined |

SECTION 12 -- ECOLOGICAL INFORMATION

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|------------------|-------------------|--------------------------|---|--|-------------------|--|
| BIODEGRADABILITY | | CONSIDERED BIODEGRADABLE | X | | NOT BIODEGRADABLE | |
| BOD / COD VALUE | Not established | | | | | |
| ECOTOXICITY | No data available | | | | | |

SECTION 13 -- DISPOSAL CONSIDERATIONS

| | | | | | | | | | |
|-----------------------|--|-----|---|--|------|----------|--|----|--|
| WASTE DISPOSAL METHOD | If in accordance with an NPDES permit or approved by local sewage treatment plant authority, small amounts may be flushed to a sanitary sewer with plenty of water. Large amounts of unused product must be disposed of as hazardous waste at an approved hazardous waste management facility. | | | | | | | | |
| RCRA CLASSIFICATION | Hazardous, corrosive D002 (if pH is equal to or greater than 12.5) | | | | | | | | |
| RECYCLE CONTAINER | | YES | X | | CODE | 2 - HDPE | | NO | |

SECTION 14 -- TRANSPORT INFORMATION

| | | | | | | |
|--------------------|--|-----------|--|--|---------------|---|
| DOT CLASSIFICATION | | HAZARDOUS | | | NOT HAZARDOUS | X |
| DESCRIPTION | Exempted by DOT for containers of 1 gallon or less | | | | | |
| SYSCO HM CODE | None | | | | | |

SECTION 15 -- REGULATORY INFORMATION

REGULATORY STATUS

| | | |
|---|------------------------------|--|
| X | EPA REGISTERED (UNDER FIFRA) | 29055-20004 |
| | FDA REGULATED | |
| | KOSHER | |
| X | SARA TITLE III MATERIAL | Sodium hypochlorite (Section 304) |
| | USDA AUTHORIZED | |
| X | CANADA WHMIS | Controlled Product, Class E - Corrosive Material |

SECTION 16 -- OTHER INFORMATION

NFPA CLASSIFICATION

| | | |
|----|--------|----------------|
| 2 | BLUE | HEALTH HAZARD |
| 0 | RED | FLAMMABILITY |
| 1 | YELLOW | REACTIVITY |
| OX | WHITE | SPECIAL HAZARD |

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by Sysco in connection with the use of this information.