



MATERIAL SAFETY DATA SHEET

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	Reliance Germicidal Bleach	PACK	4 / 128 oz.
PRODUCT CODE	8729149		

ISSUE DATE	07-21-10
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MANUFACTURER Sysco Corporation
STREET ADDRESS 1390 Enclave Parkway
CITY, STATE, ZIP Houston, Texas 77077

EMERGENCY TELEPHONE NUMBERS

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	6.00 – 7.00	Not established	Not established	Not established	
* Sodium Hydroxide	1310-73-2	< 1.0	Not established	Not established	Not established	

* -- 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

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 damage, especially to broken skin.

SECTION 4 -- FIRST AID MEASURES

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

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.
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SECTION 7 -- HANDLING AND STORAGE

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

HYGIENIC PRACTICES	Avoid breathing vapors. 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

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 Neoprene, Nitrile or Butyl rubber 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 °F (decomposes)
ODOR	Bleach Odor	FREEZING POINT	~ 20 °F
pH	12.6 maximum	VAPOR PRESSURE	Not determined
SPECIFIC GRAVITY	1.080 minimum	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

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

SECTION 12 -- ECOLOGICAL INFORMATION

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. Proper DOT shipping name: Hypochlorite solution with not more than 7% available chlorine. Not Restricted per 49CFR 172.101 (c)(12)(iv).		
SYSCO HM CODE	None		

SECTION 15 -- REGULATORY INFORMATION**REGULATORY STATUS**

X	EPA REGISTERED (UNDER FIFRA)	70271-13-29055
	FDA REGULATED	
	KOSHER	
X	SARA TITLE III MATERIAL	Sodium hypochlorite and Sodium hydroxide (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.