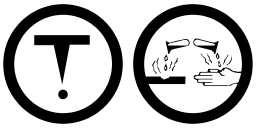
JohnsonDiversey

MATERIAL SAFETY DATA SHEET



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 0056

PRODUCT NAME: 19% SODIUM HYPOCHLORITE

USE: Liquid Bleach

SUPPLIER:

JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada

EMERGENCY PHONE:

1-800-668-7171

WHMIS CLASSIFICATION: D2B E
CHEMICAL FAMILY: Chlorinated alkali

TRADE NAME / SYNONYMS: not applicable
CHEMICAL NAME: Sodium hypochlorite solution

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Sodium hypochlorite	10-30	007681-52-9	not available	n/a

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:

Gloves: impermeable gloves **Eye:** safety goggles **Footwear:** not applicable

Respiratory: If mists are generated, use NIOSH approved mask **Other:** impermeable apron

SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye and skin contact.

VENTILATION REQUIREMENTS: mechanical exhaust

INCOMPATIBILITY (Material to Avoid): Acids, oxidizable materials, ammonia, urea, other nitrogenous materials, and metals.

SPILL PROCEDURES: Contain the spill. Do not allow the spilled product to go to drain. Neutralize with sodium sulfite, sodium bisulphite, or dilute hydrogen peroxide. Mop up or soak up with absorbent clay for disposal. Wash spill area with large volumes of water.

WASTE DISPOSAL: Dispose according to municipal, provincial and federal regulations.

STORAGE / SHIPPING REQUIREMENT: Store in a cool dry area in a closed container. Keep away from oxidizable materials. UN1791

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear, yellow-green liquid - chlorine odour

S.G. / BULK DENSITY(g/cc): 1.25 ± 0.01
pH: (concentrate): 12.0

VAPOUR PRESSURE (mmHg): 17.5
VAPOUR DENSITY (air=1): not applicable

ODOUR THRESHOLD: not available
BOILING POINT: approx. 100°C

FREEZING POINT: -25°C
PERCENT VOLATILE: 85%

SOLUBILITY IN WATER: soluble
EVAPORATION RATE (water=1): not available

V - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:

EYES: Corrosive. May cause severe irritation. May cause permanent damage if not treated promptly.

SKIN: Corrosive. May cause severe irritation. May cause temporary or permanent damage if not treated promptly.

INGESTION: Corrosive. May cause severe irritation of the digestive tract. May cause permanent damage if not treated promptly. May lead to convulsions, coma and death.

INHALATION: May cause irritation of the nose and throat, coughing, difficulty breathing; may cause pulmonary edema.

LD50 (calculated): not available	**LC50 (calculated):** not available

OTHER TOXIC EFFECTS: none known

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: none known

VI - FIRST AID MEASURES

EYES: Flush eyes with plenty of water for at least 15 minutes. Hold eye lids open while rinsing. Contact a physician immediately.

SKIN: Flush affected area thoroughly with water. If irritation persists, contact a physician.

INGESTION: Drink large volumes of water . Never give anything by mouth to an unconscious person. Do not induce vomiting. Contact a physician immediately.

INHALATION: Remove patient to fresh air. If breathing difficulty occurs, get medical attention.

VII - FIRE AND EXPLOSION DATA

FLAMMABLE: No

FLASH POINT, °C: not applicable	**AUTO IGNITION TEMPERATURE,°C:** N/Ap

EXTINGUISHING MEDIA: Water [X] Dry Chemical [X] Carbon Dioxide [X] Foam [X] Other [ ]

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective equipment.

HAZARDOUS COMBUSTION PRODUCTS: chlorine gas

EXPLOSIVE SENSITIVITY TO: not applicable

VIII - REACTIVITY DATA

STABILITY: Stable [ ] Unstable [X]

CONDITIONS TO AVOID: Decomposes slowly. Do not expose to temperatures above 40°C (104°F), sunlight, or metals.

INCOMPATIBILITY (Material to Avoid) : Acids, oxidizable materials, ammonia, urea, metals.

HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine gas is released by contact with acids; oxygen is released by contact with metals. Contact with ammonia and urea produce nitrogen gas and chloramines. Contact with oxidizable materials produces heat which may generate chlorine gas.

REACTIVITY: not applicable

IX - MSDS PREPARATION

SOURCES USED: RTECS	**PREPARED BY:** JohnsonDiversey Canada, Inc. Regulatory Department Industrial Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	