



## I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 4375

PRODUCT NAME: DIVERGUARD LA

USE: Pasteurizer Biocide

## 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: not applicable

## II - HAZARDOUS INGREDIENTS

| HAZARDOUS INGREDIENT | % w/w | CAS #       | LD50 / LC50    | Route / Species |
|----------------------|-------|-------------|----------------|-----------------|
| Sodium hydroxide     | 1-5   | 001310-73-2 | LDLo 500 mg/kg | oral/rab        |
| Sodium hypochlorite  | 7-13  | 007681-52-9 | LD50 375 mg/kg | oral/rat        |

## III - HANDLING AND DISPOSAL PROCEDURES

## PERSONAL PROTECTIVE EQUIPMENT:

Gloves: Natural rubber, Neoprene or PVC      Eye: Safety goggles      Footwear: As required

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

SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye and skin contact. Do not breathe mist, spray or vapours.

VENTILATION REQUIREMENTS: Mechanical exhaust

INCOMPATIBILITY (Material to Avoid): Acids, reducing agents, ammonia and amines.

SPILL PROCEDURES: Contain the spill. Do not allow the spilled product to go to drain. 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. UN1760

## IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear, yellow liquid - chlorine odour

S.G. / BULK DENSITY(g/cc): 1.15

pH: 12.0 - 12.5

VAPOUR PRESSURE (mmHg): not applicable

VAPOUR DENSITY (air=1): not applicable

ODOUR THRESHOLD: not available

BOILING POINT: approx. 100°C

FREEZING POINT: not available

PERCENT VOLATILE: 80%

SOLUBILITY IN WATER: soluble

EVAPORATION RATE (water=1): not applicable

## 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 temporary or permanent damage if not treated promptly.

INHALATION: Corrosive. Inhalation of spray or mist may cause irritation of the respiratory tract.

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|--|---|
| <b>LD50 (calculated):</b> 3227 mg/kg   | <b>LC50 (calculated):</b> not available   |
| <b>OTHER TOXIC EFFECTS:</b> Sodium hydroxide TLV - CEL 2 mg/m3; Chlorine TLV - TWA 0.5 ppm, TLV - STEL 1 ppm   |   |
| <b>EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:</b> not available  |   |
| <b>VI - FIRST AID MEASURES</b>   |   |
| <b>EYES:</b>   | Flush eyes with plenty of water for at least 15 minutes. Hold eyelids open while rinsing. Contact a physician immediately.                      |
| <b>SKIN:</b>   | Flush affected area thoroughly with water. If irritation develops, contact a physician.   |
| <b>INGESTION:</b>  | Drink large volumes of water . Never give anything by mouth to an unconscious patient. Do not induce vomiting. Contact a physician immediately. |
| <b>INHALATION:</b>   | Remove patient to fresh air. Get medical attention for any breathing difficulty.  |
| <b>VII - FIRE AND EXPLOSION DATA</b>   |   |
| <b>FLAMMABLE:</b> No   |   |
| <b>FLASH POINT, °C:</b> not applicable   | <b>AUTO IGNITION TEMPERATURE, °C:</b> N/Ap  |
| <b>EXTINGUISHING MEDIA:</b> Water [x] Dry Chemical [x] Carbon Dioxide [x] Foam [x] Other [ ]   |   |
| <b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Wear self-contained breathing apparatus.  |   |
| <b>HAZARDOUS COMBUSTION PRODUCTS:</b> When heated chlorine gas is generated.   |   |
| <b>EXPLOSIVE SENSITIVITY TO:</b> not applicable  |   |
| <b>VIII - REACTIVITY DATA</b>  |   |
| <b>STABILITY:</b> Stable [x] Unstable [ ]  |   |
| <b>CONDITIONS TO AVOID:</b> Chlorine gas may be released when heated.  |   |
| <b>INCOMPATIBILITY (Material to Avoid) :</b> Acids, reducing agents, amines and ammonia.   |   |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> Contact with acids will produce heat and release chlorine gas. Reducing agents can generate heat releasing chlorine. Contact with ammonia and nitrogen containing compounds can produce nitrogen gas and chloramines.   |   |
| <b>REACTIVITY:</b> not applicable  |   |
| <b>IX - MSDS PREPARATION</b>   |   |
| <b>SOURCES USED:</b> RTECS   | <b>PREPARED BY:</b> JohnsonDiversey Canada, Inc.<br>Regulatory Department<br>Food Division<br>Phone (905) 829-1200                              |
| <b>PREPARATION DATE:</b> April 24, 2003  |   |
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