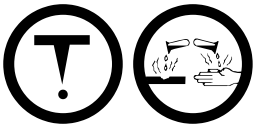
JohnsonDiversey

# MATERIAL SAFETY DATA SHEET



## I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 57221

**PRODUCT NAME:** SUMA DIP K1

**USE:** Liquid presoak

**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 |
|---|---|---|---|---|
| Potassium hydroxide | 5-10 | 001310-58-3 | LD50 365 mg/kg | oral/rat |
| Sodium hypochlorite | 1-5 | 007681-52-9 | LD50 375 mg/kg | oral/rat |
| Sodium silicate | 5-10 | 001344-09-8 | LD50 3300 mg/kg | oral/rat |

## III - HANDLING AND DISPOSAL PROCEDURES

**PERSONAL PROTECTIVE EQUIPMENT:**

**Gloves:** Natural Rubber, Neoprene or Nitrile **Eye:** Safety goggles **Footwear:** As required

**Respiratory:** If mists are generated, use NIOSH approved mask. **Other:** Not normally required.

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

**VENTILATION REQUIREMENTS:** General ventilation.

**INCOMPATIBILITY (Material to Avoid):** Acids, ammonia, urea, amines.

**SPILL PROCEDURES:** Wear protective clothing. 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. UN1814

## IV - PHYSICAL PROPERTIES

**APPEARANCE / ODOUR:** Pale yellow liquid - chlorine odour

**S.G. / BULK DENSITY(g/cc):** 1.22

**pH:** (1% solution): 11.6

**VAPOUR PRESSURE (mmHg):** not available

**VAPOUR DENSITY (air=1):** not available

**ODOUR THRESHOLD:** 0.2-0.4 ppm chlorine

**BOILING POINT:** approx. 100°C

**FREEZING POINT:** approx. 0°C

**PERCENT VOLATILE:** approx. 77%

**SOLUBILITY IN WATER:** soluble

**EVAPORATION RATE (water=1):** approx. 1

## 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 permanent damage if not treated promptly.

**INGESTION:** Corrosive. May cause severe irritation of the digestive tract. May cause permanent damage if not treated promptly.

**INHALATION:** Breathing vapours may cause respiratory irritation.

| | |
|---|---|
| **LD50 (calculated):** 3172 mg/kg | **LC50 (calculated):** not applicable |

**OTHER TOXIC EFFECTS:** TLV - CL (Potassium hydroxide): 2 mg/m3; TLV - TWA (Chlorine): 0.5 ppm, STEL 1.0 ppm

**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 eyelids open while rinsing. Contact a physician immediately.

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

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

**INHALATION:** Remove patient to fresh air. Get medical attention for any breathing difficulty.

## 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.

**HAZARDOUS COMBUSTION PRODUCTS:** Chlorine gas and oxygen released when heated.

**EXPLOSIVE SENSITIVITY TO:** not applicable

## VIII - REACTIVITY DATA

**STABILITY:** Stable [ ] Unstable [x]

**CONDITIONS TO AVOID:** Chlorine loss accelerated at high temperature and when exposed to light.

**INCOMPATIBILITY (Material to Avoid) :** Acids, ammonia, urea, amines.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Contact with acid generates heat and chlorine gas. Contact with ammonia, urea and amines produces nitrogen gas and chloramines.

**REACTIVITY:** not dangerously reactive

## IX - MSDS PREPARATION

| | |
|---|---|
| **SOURCES USED:** RTECS, ChemInfo | **PREPARED BY:** JohnsonDiversey Canada, Inc.<br>Regulatory Department<br>Institutional Division<br>Phone (905) 829-1200 |
| **PREPARATION DATE:** March 10, 2006 | |