



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 00936

PRODUCT NAME: CONFIDENCE 41**USE:** Boiler water treatment for softened makeup water**SUPPLIER:**JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada**EMERGENCY PHONE:****1-800-668-7171****WHMIS CLASSIFICATION:** E**CHEMICAL FAMILY:** caustic 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
Potassium hydroxide	5-10	001310-58-3	LD50 365 mg/kg	oral/rat
Sodium sulphite	1-5	007757-83-7	LD50 3560 mg/kg	oral/mou

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:**Gloves:** Natural rubber or Neoprene**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:** General ventilation**INCOMPATIBILITY (Material to Avoid):** Acids, Soft metals.**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. Avoid freezing.

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IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear amber liquid**S.G. / BULK DENSITY(g/cc):** 1.15**pH:** (1% solution): 12.2**VAPOUR PRESSURE (mmHg):** 17.5 @ 20°C**VAPOUR DENSITY (air=1):** 17.3**ODOUR THRESHOLD:** not applicable**BOILING POINT:** >100°C**FREEZING POINT:** approx. 0°C**PERCENT VOLATILE:** 80%**SOLUBILITY IN WATER:** soluble**EVAPORATION RATE (water=1):** 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 temporary or permanent damage if not treated promptly.	
INHALATION: Corrosive. Inhalation of spray, mist or vapours may cause irritation of respiratory tract.	
LD50 (calculated): 3543 mg/kg	LC50 (calculated): not available
OTHER TOXIC EFFECTS: Sodium hydroxide TLV-TWA 2 mg/m3; Potassium hydroxide TLV-CL 2 mg/m3	
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: Oxides of carbon, nitrogen.	
EXPLOSIVE SENSITIVITY TO: not applicable	
VIII - REACTIVITY DATA	
STABILITY: Stable [X] Unstable []	
CONDITIONS TO AVOID: not applicable	
INCOMPATIBILITY (Material to Avoid) : Acids, Soft metals.	
HAZARDOUS DECOMPOSITION PRODUCTS: Contact with acids will generate heat. Contact with soft metals forms flammable hydrogen gas.	
REACTIVITY: not dangerously reactive	
IX - MSDS PREPARATION	
SOURCES USED: RTECS, MSDS.	PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Industrial Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	
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