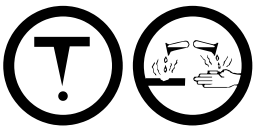
JohnsonDiversey

MATERIAL SAFETY DATA SHEET



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 11109

PRODUCT NAME: EnduroChlor

USE: Chlorinated alkaline foam cleaner

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
Tetradecyldimethylamine oxide	1-5	003332-27-2	LD50 >1000 mg/kg	oral/rat
Sodium hypochlorite	1-5	007681-52-9	LD50 375 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:

Gloves: Natural Rubber, Neoprene, Nitrile **Eye:** safety goggles **Footwear:** as required

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

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

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. UN3266

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear, yellow liquid, chlorine odour

S.G. / BULK DENSITY(g/cc): 1.18
pH: > 13.0

VAPOUR PRESSURE (mmHg): 17.5 @ 20°C
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.

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

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

LD50 (calculated): 2566 mg/kg	**LC50 (calculated):** not available

OTHER TOXIC EFFECTS: TLV: (Potassium hydroxide) CL 2 mg/m3: (Cl2) TWA 0.5 ppm, STEL 1 ppm.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: not available

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 may be released when heated. Oxides of carbon, nitrogen.

EXPLOSIVE SENSITIVITY TO: not applicable

VIII - REACTIVITY DATA

STABILITY: Stable [x] Unstable [ ]

CONDITIONS TO AVOID: High storage temperatures.

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

HAZARDOUS DECOMPOSITION PRODUCTS: 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. Contact with aluminum or zinc may generate flammable hydrogen gas.

REACTIVITY: not dangerously reactive

IX - MSDS PREPARATION

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