



MATERIAL SAFETY DATA SHEET



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 57436

PRODUCT NAME: COMPLEX

USE: Caustic Additive

SUPPLIER:

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

EMERGENCY PHONE:
1-800-668-7171
WHMIS CLASSIFICATION: E

CHEMICAL FAMILY: Sequesterant

TRADE NAME / SYNONYMS: not applicable

CHEMICAL NAME: not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Potassium silicate	1-5	001312-76-1	LD50 1750 mg/kg	oral/rat
Potassium hydroxide	5-10	001310-58-3	LD50 365 mg/kg	oral/rat
Tetrasodium edta	15-40	000064-02-8	LD50 3200 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

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. UN1760

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear yellow liquid

S.G. / BULK DENSITY(g/cc): 1.32

pH: >13.0

VAPOUR PRESSURE (mmHg): not available

VAPOUR DENSITY (air=1): not available

ODOUR THRESHOLD: not available

BOILING POINT: >100°C

FREEZING POINT: not available

PERCENT VOLATILE: 77%

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

LD50 (calculated): 3683 mg/kg		LC50 (calculated): Not applicable	
OTHER TOXIC EFFECTS: Potassium Hydroxide STEL-CEL 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/App.	
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: High temperature			
INCOMPATIBILITY (Material to Avoid) : Acids			
HAZARDOUS DECOMPOSITION PRODUCTS: Heat released on contact with acids.			
REACTIVITY: Not dangerously reactive.			
IX - MSDS PREPARATION			
SOURCES USED: RTECS, Suppliers MSDS		PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Food Division Phone (905) 829-1200	
PREPARATION DATE: June 16, 2003			
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