MATERIAL SAFETY DATA SHEET

PRODUCT CONTROLLED UNDER PCP AND/OR FOOD & DRUG ACT

I - PRODUCT IDENTIFICATION AND USE MSDS ID: 2642 PRODUCT NAME: X-CELL 419 USE: Biocide for Pulp & Paper PCP # 23182 SUPPLIER: **EMERGENCY PHONE:** JohnsonDiversey Canada, Inc. 1-800-668-7171 2401 Bristol Circle Oakville Ontario, L6H 6P1, Canada WHMIS CLASSIFICATION: TRADE NAME / SYNONYMS: not applicable exempt not applicable CHEMICAL FAMILY: **CHEMICAL NAME:** not applicable **II - HAZARDOUS INGREDIENTS** HAZARDOUS INGREDIENT LD50 / LC50 % w/w CAS# **Route / Species** 000142-59-6 Disodium ethylene bis dithiocarbamate 10-30 LD50 395 mg/kg oral/rat **III - HANDLING AND DISPOSAL PROCEDURES** PERSONAL PROTECTIVE EQUIPMENT: Gloves: natural rubber or neoprene Eye: safety goggles Footwear: not required Respiratory: If mists are generated, use NIOSH approved Other: not required mask 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): Mineral Acid. SPILL PROCEDURES: Wear protective clothing. Contain the spill. Do not allow the spilled product to go to drain. Add large amounts of soda ash and place in drums for disposal. WASTE DISPOSAL: Dispose according to municipal, provincial, and federal regulations. STORAGE / SHIPPING REQUIREMENT: Store in a cool dry area in a closed container. **IV - PHYSICAL PROPERTIES** APPEARANCE / ODOUR: Yellow green liquid with sulphur odour 10.5 - 12.4 S.G. / BULK DENSITY(g/cc): 1.18 pH: VAPOUR DENSITY (air=1): VAPOUR PRESSURE (mmHg): not available not available ODOUR THRESHOLD: **BOILING POINT:** not available Decomp >120°C FREEZING POINT: not available PERCENT VOLATILE: not applicable SOLUBILITY IN WATER: soluble **EVAPORATION RATE (water=1):** not available **V - TOXICOLOGICAL PROPERTIES EFFECTS OF ACUTE EXPOSURE TO MATERIAL:** EYES: May cause severe irritation. May cause permanent damage if not treated promptly. SKIN: Repeated or prolonged contact may result in irritation. May cause temporary or permanent damage if not treated promptly. INGESTION: Harmful if swallowed. INHALATION: Breathing spray or mist may cause respiratory irritation. LD50 (calculated): 1400 mg/kg LC50 (calculated):

1 of 2

OTHER TOXIC EFFECTS: None known.

EFFECTS OF CHRONIC None known.

EXPOSURE TO MATERIAL:

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: Induce vomiting. Contact a physician immediately.INHALATION: Remove patient to fresh air. Contact a physician.

VII - FIRE AND EXPLOSION DATA

FLAMMABLE: No

FLASH POINT, °C: not applicable AUTO IGNITION TEMPERATURE, °C:

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: not applicable.

EXPLOSIVE SENSITIVITY TO: not applicable

VIII - REACTIVITY DATA

STABILITY: Stable [X] Unstable []

CONDITIONS TO AVOID: high temperature

INCOMPATIBILITY (Material to Avoid): Mineral acids

April 15, 2003

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, nitrogen and sulphur. Amines and carbon disulphide.

REACTIVITY: not dangerously reactive.

PREPARATION DATE:

IX - MSDS PREPARATION

SOURCES USED: Raw Materials MSDS PREPARED BY: JohnsonDiversey Canada, Inc.

Regulatory Department Industrial Division Phone (905) 829-1200

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