

MATERIAL SAFETY DATA SHEET



I - PRODUCT IDENTIFICATION AND USE MSDS ID: 0632

PRODUCT NAME: OPTUM A

USE: Circulation cleaner

SUPPLIER: **EMERGENCY PHONE:**

JohnsonDiversey Canada, Inc.

2401 Bristol Circle Oakville Ontario, L6H 6P1, Canada 1-800-668-7171

WHMIS CLASSIFICATION: TRADE NAME / SYNONYMS: D2B not applicable

CHEMICAL FAMILY: **CHEMICAL NAME:** not applicable Enzyme

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT LD50 / LC50 % w/w CAS# **Route / Species** Protease 1-5 009073-77-2 not available

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:

Gloves: Natural Rubber, Neooprene or Nitrile Eve: safety glasses Footwear: not required

If mists are generated, use NIOSH approved Respiratory: Other: not applicable

mask

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

VENTILATION REQUIREMENTS: mechanical exhaust.

INCOMPATIBILITY (Material to Avoid): Strong oxidizers.

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.

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Opaque red/brown liquid - fermentation odour

S.G. / BULK DENSITY(g/cc): 1.047 pH: 8.7

VAPOUR PRESSURE (mmHg): not available VAPOUR DENSITY (air=1): not applicable

ODOUR THRESHOLD: not available **BOILING POINT:** not applicable

FREEZING POINT: not available PERCENT VOLATILE:

SOLUBILITY IN WATER: soluble **EVAPORATION RATE (water=1):** not available

V - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:

EYES: May cause irritation.

SKIN: Repeated or prolonged contact may result in irritation.

INGESTION: May cause irritation.

INHALATION: Breathing spray or mist may cause respiratory irritation.

LD50 (calculated): Not applicable LC50 (calculated): Not applicable

OTHER TOXIC EFFECTS: None known. **EFFECTS OF CHRONIC** May cause development of allergic hypersensitivity in susceptible individuals. **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: Drink large volumes of water . Never give anything by mouth to an unconscious patient. Do not induce vomiting. Contact a INHALATION: Remove patient to fresh air. VII - FIRE AND EXPLOSION DATA FLAMMABLE: No FLASH POINT, °C: not applicable **AUTO IGNITION TEMPERATURE,°C:** N/Av. **EXTINGUISHING MEDIA:** Water [x] Dry Chemical [x] Carbon Dioxide [x] Foam [x] Other [] SPECIAL FIRE FIGHTING PROCEDURES: not applicable. **HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, nitrogen, sulphur. **EXPLOSIVE SENSITIVITY TO:** not applicable **VIII - REACTIVITY DATA** STABILITY: Stable [x] Unstable [] **CONDITIONS TO AVOID:** not applicable INCOMPATIBILITY (Material to Avoid): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: not applicable

REACTIVITY: not dangerously reactive

IX - MSDS PREPARATION

SOURCES USED: Supplier MSDS PREPARED BY: JohnsonDiversev Canada. Inc.

Regulatory Department Food Division PREPARATION DATE: April 15, 2003 Phone (905) 829-1200

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