MATERIAL SAFETY DATA SHEET



MAINTENANCE LIMITED

P.O.Box 3000, Peterborough, Ontario Canada K9J 8N4 Telephone (705) 745-5763 1-800-461-7695

Product Name: Optimax Mechanical Warewash Detergent

Product Use: Machine Warewashing Detergent **Emergency Tel:** Canutec (613) 996-6666

Hazardous Ingredients

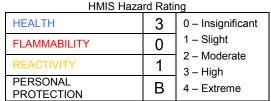
Ingredients Sodium hydroxide NA = Not Available

CAS# WT% 1310-73-2 10-30

ACGIH-TLV 2mg/m³ TWA

500 mg/kg (Oral, Rat)

 \underline{LD}_{50}



NE = Not Established



Physical Data

Appearance and odour: Red; mild. Vapour pressure (mm Hg): NE Vapour density (Air=1): NE Solubility in water (20°C): Soluble

Physical state: Liquid **Boiling point (°C):** NE Freezing point (°C): NE

Specific gravity (Water=1): 1.122 % Volatile (Wt %): >50

Evaporation rate (Water=1): NE pH (as supplied): 13.50

Odour threshold (ppm): NE

Coefficient of water/oil distribution: NE

Viscosity: Water thin.

Fire and Explosion Data

Flammability: Not flammable Flashpoint (°C, TCC): None LEL: NE **UEL:** NE

Hazardous combustion products: May include and are not limited to ammonia, oxides of carbon and nitrogen.

Means of extinction: Dry chemical, carbon dioxide, alcohol foam.

Special fire hazards: Firefighters should wear self-contained breathing apparatus.

Explosion Data - sensitivity to mechanical

impact: None.

Explosion Data - sensitivity to static

discharge: None.

Reactivity Data

Conditions for chemical instability: Stable **Incompatible materials:** Strong oxidizing agents, soft metals and strong acids.

Conditions of reactivity: NE

Hazardous decomposition products: May include and are not limited to oxides of carbon when heated to decomposition. Contact with aluminum or zinc generates hydrogen gas.

First Aid

Eye: Flush eyes with large amount of water for 15 minutes while holding eyelids open. If irritation occurs or persists, seek medical attention.

Skin: Wash skin with soap and water. If irritation develops, seek medical attention. Completely clean clothing, shoes and leather goods before reuse or discard.

Inhalation: If affected, remove to fresh air immediately. If symptoms persist, seek medical attention.

Ingestion: Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Contact a doctor. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

Preventive Measures

(7900)

Gloves: Nitrile or rubber. Confirm with a reputable supplier first.

Eye protection: Safety glasses or chemical

Respiratory protection: Not normally required if good ventilation is maintained.

Other protective equipment: As required by employer code.

Engineering control: General ventilation normally adequate. Local exhaust for mists or

Leak and spill procedure: Before attempting clean up, consult MSDS. Small spills may be absorbed with non-reactive material absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or waterways. Consult emergency services and supplier for advice.

Waste disposal: Review or contact local, provincial and federal authorities for disposal methods.

Storage & handling requirements: KEEP OUT OF REACH OF CHILDREN. Keep in a closed, labeled container. Store in a cool, dry, wellventilated area away from incompatible materials.

Special shipping information: Do not freeze.

Toxicological Information

Route of Entry: Eye, Skin Contact, Inhalation, Ingestion

Effects of Acute Exposure:

Eye Contact: Corrosive. May cause severe irritation or chemical burns. May cause permanent damage if not treated promptly.

Skin Contact: Corrosive. May cause severe irritation or chemical burns. May cause permanent damage if not treated promptly.

Skin absorption: NE

Inhalation: May cause respiratory tract irritation and coughing, headache.

Ingestion: Corrosive. May cause chemical burns to mouth, throat and stomach. May cause permanent damage if not treated promptly.

Effects of Chronic Exposure:

Skin: Moderately irritating. Prolonged or repeated exposure may cause skin drying, defatting and dermatitis. Skin contact with product may not cause immediate pain. Irritancy: Hazardous by WHMIS criteria.

Sensitization to product: None known. Carcinogenicity: None known.

Teratogenicity, Mutagenicity, Reproductive

effects: NE

Toxicological synergistic products: NA

Regulatory Information TDG Pin/Class: Corrosive Liquid, Basic,

Inorganic, N.O.S. (Sodium hydroxide) Class 8 UN 3266 PG II WHMIS Class: E

SARA Title III: NE

Preparation Information

Prepared By: Charlotte Products Technical Services Date: May 16, 2014 Tel: (705) 740-2880