

MATERIAL SAFETY DATA SHEET

Flammability	Reactivity
Health	Personal Protection

SECTION I - MATERIAL IDENTIFICATION AND USE

Material Name Liquid Machine Dishwash
Manufacturer Crown Chemical Products Inc. **Supplier's Name**
Street Address 6125 Netherhart Road **Supplier's Address**
 Mississauga, Ontario L5T 1G5
Emergency Tel. (905) 564-0904
Chemical Name **Chemical Family** Chlorinated Alkali
Molecular Weight **Material Use** Automatic Dishwash CPD.

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	Approximate Concentration %	C.A.S. N.A. or U.N. Numbers	Exposure Limits	LD ₅₀ /LC ₅₀ Specify Species and Route
Potassium Hydroxide	7-13	Cas 1310-58-3	N/AV	N/AV
Sodium Hypochlorite	1-5	7681-52-9	N/AV	N/AV

SECTION III - PHYSICAL DATA FOR MATERIAL

Physical State Liquid **Odour and Appearance** slight chlorine odor, yellow clear
Specific Gravity 1.2 **Evaporation Rate** (water =) 1.02 **Boiling Point (°C)** 100
Freezing Point (°C) 0 **Solubility in Water (20°C)** completely **% Volatile (by volume)** 85
pH n/ap **Density (g/ml)** 1.2 **Coefficient of Water/Oil Distribution** n/av

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability (If yes, under which conditions:) No.
Means of Extinction
Special Procedures For surrounding fire wear full protective equipment.
Flashpoint (°C) and Method n/ap **UEL (% By Vol.)** n/ap **LEL (% By Vol.)** n/ap
Auto Ignition Temp. (°C) n/ap **TDG Flammability Classification** Hypochlorite Soln UN1791
Hazardous Combustion Products None
Explosion Data - Sensitivity to Chemical Impact **Rate of Burning**
Explosive Power **Sensitivity to Static Discharge**

SECTION V - REACTIVITY DATA

Chemical Stability Yes.
Incompatibility to Other Substances Yes, chlorinated hydrocarbons, strong acids, peroxides, aluminum, tin, lead, zinc, copper, bronze and brass.
Reactivity and Under What Conditions? Contact with metals generates hydrogen which is flammable and/ or explosive when ignited.
Hazardous Decomposition Products None

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SECTION VI - TOXICOLOGICAL PROPERTIES OF PRODUCT

Route Of Entry Skin Contact Skin Absorptior Eye Contact Inhalation Acute Inhalation Chronic Ingestion

Effects Of Acute Severe burning of skin, deep ulcerations and ultimate scarring. Burning of mouth,
Exposure To Product esophagus; nausea, vomiting, abdominal pain, diarrhea and swelling of larynx.

Effects Of Chronic Irritation of respiratory tract, to mucous membrane of eyes inflammation of lungs. May
Exposure To Product cause ulceration of eye or permanent damage. Perforation of gastrointestinal tract can occur.

Irritancy Of Product n/av

Exposure Limits Of Product n/av

Sensitization To Product n/av

Synergistic Materials n/av

Carcinogenicity **Reproductive Effects** **Teratogenicity** **Mutagenicity**

No known systemic effects

SECTION VII - PREVENTIVE MEASURES

Personal Protective Equipment

Gloves rubber

Respiratory filter

Eye safety goggles

Footwear rubber boots

Clothing

Other rubber, vinyl or neoprene apron

Engineering Controls Adequate ventilation (control vapour below TLV) should be provided.

Leak And Spill Procedure Large spills dyke for later disposal. Pump into steel or plastic container. Neutralize small spills and wash away with water.

Waste Disposal Do not allow chemicals to enter sewers. Chemicals should be neutralized and then diluted with water.

Handling Procedures And Equipment

Storage Requirements Keep storage temperature above freezing point.

Special Shipping Information Potassium Hydroxide Solution class 8 (9.2) un 1814 pkg group II

SECTION VIII - FIRST AID MEASURES

Skin Remove contaminated clothing and flush with large quantities of water for at least 15 minutes. Alkaline burns need immediate attention.

Eye Hold eyelids open and wash thoroughly with large quantities of clean water. Get medical attention immediately.

Inhalation Remove patient to fresh air, keep victim warm and rested. Persistent discomfort must be given medical attention.

Ingestion Get medical attention immediately. Rinse mouth well with water and drink; large quantities of water. Do not induce vomiting.

General Advise

SECTION IX - PREPARATION DATE OF M.S.D.S.

Additional Information/Comments The information herein is given in good faith but no warranty, expressed or implied, is made.

Sources Used

Prepared By: Crown Chemical Products Inc. **Phone Number** (905) 564-0904 **Date** March 1, 2006