



SAFETY DATA SHEET

Liquid Machine Dishwash

SECTION 01: IDENTIFICATION

Product identifier LIQUID MACHINE DISHWASH
Other means of identification 3050
Recommended use Chlorinated dishwashing detergent for machine use
Recommended restrictions Reserved for industrial and professional use.
Manufacturer
Company name Crown Chemical Manufacturing Inc
Address 106 Vulcan Street
Toronto, Ontario, Canada
M9W 1L2
Emergency Tel: (905) 564-0904
Supplier's Name
Supplier's Address

SECTION 02: HAZARD(S) IDENTIFICATION

Hazard Classification Skin Corrosion/Irritation Category 1
Serious Eye Damage/Irritation Category 1

Label elements



Signal Word Danger

Hazard Statement H314: Causes severe skin burns and eye damage

Precautionary Statement

Wash Hands Thoroughly After Handling.
Do Not Get In Eyes, On Skin, Or On Clothing.
Do Not Breathe Mists.
If On Skin (or Hair): Take Off Immediately All Contaminated Clothing. Rinse Skin With Water/shower.
If In Eyes: Rinse Cautiously With Water For Several Minutes. Remove Contact Lenses If Present And Easy To Do - Continue Rinsing. If Eye Irritation Persists: Get Medical Advice/attention.
If Swallowed: Rinse Mouth. Do Not Induce Vomiting. Immediately Call A Poison Center Or Doctor/physician.
Wash Contaminated Clothing Before Reuse.
Store In A Well Ventilated Place. Keep Container Tightly Closed.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration %
Potassium Hydroxide	1310-58-3	7-13
Sodium Hypochlorite	7681-52-9	1-5

SECTION 04: FIRST-AID MEASURES

Inhalation Remove to fresh air. Get medical attention if symptoms occur.



SAFETY DATA SHEET

Liquid Machine Dishwash

Skin contact	Remove victim immediately from source of exposure. Remove contaminated clothes and rinse skin thoroughly with water. Contact physician if irritation continues or sores develop.
Eye	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Most important symptoms/effects, acute and delayed	See Section 11 for more detailed information on health effects and symptoms.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Non flammable. May evolve toxic gases if strongly heated to decomposition. Contact with some metals (eg: aluminum) may liberate potentially flammable – explosive hydrogen gas.
Special protective equipment and precautions for firefighters	Wear full protective equipment including a self-contained breathing apparatus.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation.
Conditions for safe storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid extreme temperatures. Keep out of the reach of children.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits	Overall Product: None established.
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SAFETY DATA SHEET

Liquid Machine Dishwash

Ingredient: Potassium Hydroxide
Agency: ACGIH TLV, Limit Type: Ceiling: 2 mg/m³
Agency: OSHA PEL, Limit Type: (vacated) Ceiling: 2 mg/m³
Agency: NIOSH, Limit Type: Ceiling: 2 mg/m³

Ingredient: Sodium Hypochlorite
Agency: ACGIH TLV 2 mg/m³

Appropriate Engineering Controls	Adequate ventilation should be provided.
Personal Protective Equipment	Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Gloves	Rubber, vinyl or neoprene
Respiratory	Not required for normal use. When respiratory protection is required, use an organic vapor & particulate cartridge.
Eye	Wear eye protection/face protection.
Clothing	Use of impervious apron, boots and other protective equipment should be considered in order to prevent or minimize contact with this product.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Odour	Slight chlorine odor
Physical State	Liquid
Color	Yellow, clear
Odour Threshold	No data available.
pH	>13
Freezing Point (°C)	No data available.
Initial Boiling Point (°C)	>100
Flashpoint (°C)	No data available.
Evaporation Rate	No data available.



SAFETY DATA SHEET

Liquid Machine Dishwash

Flammability No data available.

Lower Explosive Limit No data available.

Upper Explosive Limit No data available.

Lower Flammability Limit No data available.

Upper Flammability Limit No data available.

Vapour Pressure (mm) No data available.

Vapour Density (Air = 1) No data available.

Relative Density >1.0

Solubility Soluble

Partition coefficient (n-octanol/water) No data available.

SECTION 10: STABILITY AND REACTIVITY

Auto Ignition Temp. (°C) No data available.

Decomposition Temperature No data available.

Viscosity No data available.

Reactivity Under normal conditions of storage and use, hazardous reactions will not occur.

Chemical Stability Stable under normal conditions.

Possibility of hazardous reactions Hazardous polymerization will not occur.

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid contact with acids.

Incompatible Materials Incompatible with oxidizing agent (e.g. hypochlorite, peroxide), acids (eg. Hydrochloric acid), heat and ignition sources.

Hazardous Decomposition Products May evolve toxic gas if heated to decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Skin Contact Eye Contact Ingestion
 Skin Absorption Inhalation



SAFETY DATA SHEET

Liquid Machine Dishwash

Toxicological Information

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

EYES: Causes severe irritation experienced as discomfort or pain, excess blinking and tear production, with redness and swelling of the conjunctiva. Prolonged contact may result in corneal burns and possible permanent damage.

SKIN: Brief contact may cause irritation. Prolonged contact may cause more severe irritation with pain, local redness and swelling and possible tissue destruction.

INHALATION: High vapor concentrations may be irritating to respiratory tract.

INGESTION: Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea. May cause internal injury. Ingestion of large quantities may result in ulceration, unconsciousness, convulsion, and death.

Chronic Exposure : Health injuries are not known or expected under normal use.

Toxicity

Respiratory or skin sensitization : no data available

Carcinogenicity : no data available

Reproductive effects : no data available

Germ cell mutagenicity : no data available

Teratogenicity : no data available

Numerical Measures Of Toxicity

Hazardous Ingredients

LD₅₀ /LC₅₀ Specify Species and Route

Potassium Hydroxide

LD50 (Oral, Rat) 365 mg/ kg

Sodium Hypochlorite

LD50 (Ingestion, mouse): 5800 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity No data available.

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Mobility in soil No data available

Other adverse effects No data available.



SAFETY DATA SHEET

Liquid Machine Dishwash

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods In accordance with municipal, provincial and federal regulations.

SECTION 14: TRANSPORT INFORMATION

UN number UN 1791

TDG Classification Hypochlorite Solution Class 8

Packing group II

Special Shipping Instructions Refer to Transportation of Dangerous Goods Regulations.

Hypochlorite Solution
Class 8 UN 1791
Packing Group II

SECTION 15: REGULATORY INFORMATION

Regulatory Information This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

SECTION 16: OTHER INFORMATION

N/AP = Not Applicable

N/AV = Not Available

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

GHS: Globally Harmonized System

HPR : Hazardous Products Regulations

IARC: International Agency for Research on Cancer

NIOSH: The National Institute for Occupational Safety and Health

NTP : National Toxicology Program

OSHA : United States Department of Labor - Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TWA: Time-Weighted-Average

Prepared By: Crown Chemical Manufacturing Inc.

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