

Safety Data Sheet

DISHCARE MACHINE WASH NC

SECTION 1. IDENTIFICATION

Product Identifier DISHCARE MACHINE WASH NC
Other Means of Identification Dishwashing machine detergent
Product Family Concentrate to be diluted
Recommended Use Non-chlorinated automatic dishwash detergent.
Restrictions on Use For industrial/professional use only.
Manufacturer/Supplier Identifier Maunco Cleaning Supplies Warehouse
270 Adam Street
Belleville, ON, K8N 5S4
Canada
613-962-0437
www.maunco.com
Emergency Phone No. not available

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

Classification

Corrosive to metals - Category 1; Skin corrosion - Category 1; Serious eye damage - Category 1; Hazard Not Otherwise Classified (HNOC)

Label Elements



Signal Word:

Danger

Hazard Statement(s):

Causes severe skin burns and eye damage.

Causes severe damage to the respiratory tract.

May be corrosive to metals.

Precautionary Statement(s):

Prevention:

Do not breathe dusts or mists.

Keep only in original packaging.

Wash hands and skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Absorb spillage to prevent material damage.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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Immediately call a POISON CENTRE or doctor
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTRE or doctor
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Immediately call a POISON CENTRE or doctor.

Storage:

Store locked up.
Store in corrosion resistant container with a resistant inner liner.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

May be harmful if swallowed.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Potassium hydroxide	1310-58-3	3-7	none	Caustic potash
Sodium hydroxide	1310-73-2	3-7	none	Caustic soda

Notes

Concentrations are expressed in % weight/weight.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. Immediately call a Poison Centre or doctor.

Skin Contact

Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately rinse skin with lukewarm, gently flowing water for at least 30 minutes. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. Immediate medical attention is required. Immediately call a Poison Centre or doctor.

Ingestion

Immediate medical attention is required. Do not induce vomiting. Rinse mouth with water. Immediately call a Poison Centre or doctor.

First-aid Comments

None other.

Most Important Symptoms and Effects, Acute and Delayed

If swallowed: can burn the lips, tongue, throat and stomach.

If inhaled and/or swallowed: at high concentrations may irritate or burn the respiratory tract and in the most severe cases cause pulmonary edema.

If on skin: may cause moderate to severe irritation. Repeated or prolonged exposure can irritate the skin.

If in eyes: causes serious eye damage.

Immediate Medical Attention and Special Treatment

Target Organs

No further relevant information available.

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Heating increases the release of toxic vapour.

Not known to generate any hazardous decomposition products in a fire.

Special Protective Equipment and Precautions for Fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. No special precautions are necessary.

No further information are available.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Use personal protective equipment. Follow handling tips and recommendations for protective gear. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. Notify local authorities if significant leaks can not be contained.

Methods and Materials for Containment and Cleaning Up

Place used absorbent into suitable, covered, labelled containers for disposal. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. After cleaning, flush away traces with water.

Other Information

None other.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment to avoid direct contact with this chemical. General Hygiene: When using do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Take off all contaminated clothing and wash it before reuse. Keep the container tightly closed. Avoid inhaling vapours or fumes from this product.

Conditions for Safe Storage

Keep in a restricted area for personnel only (locked up) keep away from heat and frost. Store in the original, labelled, shipping container. Store in an area that is: strong acids (e.g. hydrochloric acid), organic acids (e.g. acetic acid), Urea, Oxidizing agents (e.g. peroxides), and some metal (ref section 10).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL		AIHA® WEEL®	
	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term TWA [C]
Potassium hydroxide		2 mg/m3	Not established			
Sodium hydroxide		2 mg/m3	2 mg/m3			

Consult local authorities for provincial exposure limits.

Appropriate Engineering Controls

General ventilation is usually adequate. In a confined space: provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.
Suitable materials are: rubber or nitrile.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. General Hygiene: When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Take off all contaminated clothing and wash it before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear orange liquid.
Odour	Odourless
Odour Threshold	Not available
pH	14
Melting Point/Freezing Point	Not applicable (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.135
Solubility	Miscible in any proportion in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)

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Other Information

Other Physical Property 1

Not flammable, not combustible

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Heat. Freezing.

Incompatible Materials

Ammonia, strong acids (e.g. hydrochloric acid), organic acids (e.g. acetic acid). Urea, oxidizing agents (e.g. peroxides). Corrosive to: aluminium, aluminium alloys, copper, copper alloys, (e.g. brass and/or bronze), nickel, iron, manganese.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

ATE = Acute toxicity estimates. Calculate by Canwrite function as per 5th revised edition of the GHS purple book (Chapter 3.1).

Likely Routes of Exposure

Skin contact; eye contact; inhalation; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Potassium hydroxide	Not available	365 mg/kg (rat)	> 1260 mg/kg (rabbit)
Sodium hydroxide	Not available	Not available	Not available

Oral ATE_{mix} = 13518 mg/kg

Dermal ATE_{mix} = 46666 mg/kg

Skin Corrosion/Irritation

Avoid contact with skin. Corrosive. Contact with skin may cause severe irritation and burns.

Serious Eye Damage/Irritation

May irritate or burn the eyes. Permanent damage including blindness may result.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Inhalation of high concentration of mist may cause severe irritation or burns to the respiratory tract.

Ingestion

May be harmful if swallowed. Ingestion causes acute irritation and burns to the mucous membranes of the mouth, trachea, esophagus and stomach.

Aspiration Hazard

Aspiration of high concentration of mist may cause severe irritation or burns to the respiratory tract and in the most severe cases cause pulmonary edema.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Based on ingredient. (Potassium hydroxide) repeated or prolonged skin contact to dilute solutions is expected to cause drying, cracking, and inflammation of the skin (dermatitis).

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Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

No information was located.

Reproductive Toxicity**Development of Offspring**

No information was located.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

Other Information

Sources for toxicity values:
RTECS updated june 2018
CHEMINFO database

SECTION 12. ECOLOGICAL INFORMATION

Environmental information was not located.

Ecotoxicity

No information was located.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal Methods**

Empty containers retain product residue. Follow label warnings even if container appears to be empty. Do not reuse empty containers.

Dispose of or recycle empty containers through an approved waste management facility.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1760	Corrosive liquid N.O.S (Potassium hydroxide)	8	III

Special Precautions Please note: Limited quantity 5L

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

This section is not required by WHMIS.

SECTION 16. OTHER INFORMATION

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Key to Abbreviations

LC 50 = Létal concentration
LD 50 = Létal dose
PEL= Permissible exposure limit. (OSHA HCS limit)
TLV = Threshold Limit Value (ACGIH limit)
TWA = Time-Weighted Average
STEL [C] = Short Term Exposure Limit [ceiling]
OSHA = Occupational Safety and Health Administration (United States)
ACGIH® - American Conference of Governmental Industrial Hygienists
AIHA® = AIHA® Guideline Foundation
HSDB® = Hazardous Substances Data Bank
IARC = International Agency for Research on Cancer
NIOSH = National Institute for Occupational Safety and Health
NTP = National Toxicology Program
RTECS® = Registry of Toxic Effects of Chemical Substances
CNESST = Committee on Standards, Equity, Health and Safety at Work (Quebec)

References

CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).
Manufacturer datasheets
CNESST site: www.csst.qc.ca/en/prevention/reptox.

Disclaimer

The information in this safety data sheet are, to our knowledge, according to our information and belief, accurate at the date of publication. This information is provided as a guide for the safe handling, use, processing, storage, transportation, disposal and disposal of the product, and should not be considered as any guarantee or quality standard. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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