

SAFETY DATA SHEET

Emission date: 2019-12-11



Section 1. Identification

Product name : **AQUA-2000 HC** **Code** : **7105**

Recommended use : **Highly concentrated liquid dishwasher detergent**

Restrictions on use : For professional use only.

Supplier/Manufacturer : **CHOISY LABORATORIES LTD**
390, boul. St-Laurent Est
Louiseville (Quebec)
CANADA J5V 2L7
info@choisy.com / www.choisy.com

Emergency phone (24 hour service) : **Quebec Poison Control Centre:**
-Quebec: 800-463-5060 (no charge)
-All other places: 418-656-8090
CANUTEC: 613-996-6666 (collect)

Section 2. Hazard identification

Product classification : SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1



Signal word : Danger

Hazard statements : Causes severe skin burns and eye damage.

Precautionary statements

General : Not applicable.

Prevention : Wear protective gloves, protective clothing, eye protection and face protection. Wash hands thoroughly after handling.

Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.
IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage : Store locked up.

Disposal : Dispose of contents and container in a waste disposal facility, in accordance with all local, regional and national regulations.

Other hazards : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Hazardous ingredients	CAS number	Concentration %
- Sodium hydroxide	1310-73-2	5 - 10
- Potassium hydroxide	1310-58-3	5 - 10
- Sodium metabisulfite	7681-57-4	1 - 5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4. First aid measures

Eye contact : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.

Skin contact : Get medical attention immediately. Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes.

Inhalation : Get medical attention immediately. Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Ingestion : Get medical attention immediately. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.



Notes to medical doctor : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See Section 11 for more detailed information on health effects and possible symptoms.

Section 5. Fire-fighting measures

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides

Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or spray. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or spray. Wash hands thoroughly after handling. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep away from acids. Manipulate with care, avoid splashes.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from acids. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

<u>Hazardous ingredients</u>	<u>CAS number</u>	<u>Exposure limit values</u>
- Sodium hydroxide	1310-73-2	CA Quebec Provincial (Canada). STEL: 2 mg/m ³
- Potassium hydroxide	1310-58-3	CA Quebec Provincial (Canada). STEL: 2 mg/m ³
- Sodium metabisulfite	7681-57-4	CA Quebec Provincial (Canada). TWA: 5 mg/m ³

Appropriate engineering controls

Ensure ventilation is adequate if there is a risk of aerosol formation or vapor build-up.

Personal protective equipment

Eye/face : Wear eye protection against chemical splashes.
Hands : Wear chemical-resistant, impervious gloves.
Respiratory : No respiratory protection required under normal handling conditions.
Other : Wear appropriate protective clothing to prevent skin contact.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Handling of diluted product: Information contained therein are issued for the concentrated product as sold. At recommended use dilution, risks regarding this product are greatly reduced. Preventive measures can then be tailored to the employer judgment based on experience and/or level of exposure of workers.

**Section 9. Physical and chemical properties**

pH	: >13	Physical state	: Liquid. [Transparent liquid.]
Specific gravity	: 1.24 to 1.25	Color	: Yellowish.
Odor threshold	: Not available.	Odor	: Characteristic. [Slight]
Boiling point	: 100°C		
Melting/freezing point	: <0°C		
Vapor pressure	: Not available.		
Vapor density	: Not available.		
Volatility	: Not available.		
Solubility	: Easily soluble in the following materials: cold water and hot water.		
Flash point	: Closed cup: >93.3°C [Pensky-Martens, closed cup.] [Product does not sustain combustion.]		
Viscosity	: Dynamic (room temperature): <10 mPa·s (<10 cP)		
Evaporation rate	: Not available.		
Flammability (solid, gas)	: Not available.		
Flammable limits	: Not available.		
Partition coefficient: n-octanol/water	: The product is much more soluble in water.		
Auto-ignition temperature	: Not available.		
Decomposition temperature	: Not available.		

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: acids
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Likely routes of exposure : Dermal contact. Eye contact. Ingestion.

Potential acute health effects

Eye contact	: Causes serious eye damage.
Skin contact	: Causes severe burns.
Inhalation	: The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Ingestion	: May cause burns to mouth, throat and stomach.

Potentials symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Pain, watering, redness
Skin contact	: Pain or irritation, redness, blistering may occur
Inhalation	: respiratory tract irritation, coughing
Ingestion	: Stomach pains

Potential chronic health effects

Carcinogenic Effects	: No known significant effects or critical hazards.
Mutagenic Effects	: No known significant effects or critical hazards.
Teratogenic Effects	: No known significant effects or critical hazards.
Reproductive effects	: No known significant effects or critical hazards.
Sensitizer	: No known significant effects or critical hazards.

Numerical measures of acute toxicity

Product/ingredient name	Species	Result	Dose
- Sodium hydroxide	Rabbit	LD50 Dermal	1350 mg/kg
	Rat	LD50 Oral	>140 mg/kg
- Potassium hydroxide	Rabbit	LD50 Dermal	1260 mg/kg
	Rat	LD50 Oral	214 to 365 mg/kg
- Sodium metabisulfite	Rat	LD50 Oral	1540 mg/kg

**Section 12. Ecological information**

Ecotoxicity : No known significant effects or critical hazards.
Phosphate-free product.

Aquatic ecotoxicity:

Product/ingredient name	Result	Species	Exposure
- Sodium hydroxide	Acute EC50 40.38 mg/l Acute LC50 125 ppm	Crustaceans Fish - Mature	48 hours 96 hours

Persistence and degradability

Organic components are readily biodegradable based on OECD guidelines of the 301 serie (A to F).

Section 13. Disposal considerations**Waste handling and disposal**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Reg. info.	UN #	Proper shipping name	Classes	PG*	Label	Additional information
TDG Class	UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (- Potassium hydroxide, - Sodium hydroxide , solution)	8	II		Remarks Limited quantity in 1L or less SEQ 447

PG* : Packing group

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Classification of this product and the SDS have been made in accordance with Hazardous Products Regulations (HPR) in force in Canada. This product is a mixture for which no specific health effects data exist. The risks have therefore been evaluated based on the physicochemical properties of the product and its composition and may be overestimated.

Food contact : Food Industry Compliant.

DSL; Canadian Domestic Substance List : All components are listed or exempted.

Section 16. Other information

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Notice to reader

The information provided in this Safety Data Sheet has been compiled from our experience and data presented in various technical publications. The information contained herein is based on the state of our current knowledge of the product concerned. It is the user's responsibility to verify the value of this information for the adoption of required safety measures. We reserve the right to revise Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact the company to make sure that the Safety Data Sheet he owns is the last published.

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