

AUTO DISHWASH OC

SECTION 1. IDENTIFICATION

Product Identifier	AUTO DISHWASH OC
Other Means of Identification	Code: EC-097
Recommended Use	Cleaning product.
Restrictions on Use	Reserved for industrial and professional use.
Manufacturer/Supplier Identifier	Epsilon Chemicals Ltd., 1926-94 Street N.W., Edmonton, Alberta, T6N1J3, (780) 438-3040
Emergency Phone No.	CANUTEC, (613) 996-6666, 24/7
Date of Preparation	October 03, 2018

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin corrosion - Category 1; Serious eye damage - Category 1

Label Elements



Signal Word:
Danger

Hazard Statement(s):

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H303	May be harmful if swallowed.

Precautionary Statement(s):

Prevention:

P260	Do not breathe dusts or mists.
P264	Wash hands and skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Give large quantities of water or milk to drink.
P315 Get immediate medical advice/attention.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Get medical attention.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Get medical attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical attention.

Storage:
Store locked up in a cool, well-ventilated place away from possible contaminants.
Keep container closed when not in use.

Disposal:
P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

Hazardous to the environment.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Potassium hydroxide	1310-58-3	15-40		

Notes

Potassium hydroxide used is a 45% solution.
Concentrations are expressed in % weight/weight.
Actual concentrations are withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. Get medical attention.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. Get medical attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Get medical attention.

Ingestion

Rinse mouth with water. Get immediate medical attention. Give plenty of water to drink. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

Causes severe irritation and burns to the skin. Causes serious eye damage.

Immediate Medical Attention and Special Treatment

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use extinguishing agent suitable for surrounding fire.

Specific Hazards Arising from the Product

Combustion will produce carbon dioxide and possibly carbon monoxide. Potassium oxides are produced on combustion.

Special Protective Equipment and Precautions for Fire-fighters

Use appropriate certified respirators when facing concentrations above the exposure limit. See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Do not allow into any sewer, on the ground or into any waterway. Minimize the use of water to prevent environmental contamination.

Methods and Materials for Containment and Cleaning Up

With large spills, dyke for later disposal. Neutralize with diluted acid like hydrochloric or sulphuric acid. Minor spills can be neutralized and flushed with plenty of water.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Rubber gloves and coveralls should be worn to minimize contact with skin and clothing. Safety glasses with side-shield. See Individual Protection Measures in Section 8 (Exposure Controls/Personal Protection).

Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated, out of direct sunlight and away from heat and ignition sources. Separate from incompatible materials (see Section 10: Stability and Reactivity). Store in a closed container.

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	2 mg/m3		

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA® = American Industrial Hygiene Association. WEEL® = Workplace Environmental Exposure Limit. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. C = Ceiling limit.

Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots. Remove and wash contaminated clothing before reuse. Gloves should be discarded if there is any indication of degradation.

Respiratory Protection

Use appropriate certified respirators when facing concentrations above the exposure limit.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear red liquid.
pH	>= 14.0
Relative Density (water = 1)	1.242
Solubility	Soluble in all proportions in water

SECTION 10. STABILITY AND REACTIVITY

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Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Incompatible Materials

Acids, oxidizing agents (e.g. peroxides).

Hazardous Decomposition Products

Reacts with some metals to produce hydrogen gas. Potassium oxides on combustion.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Likely Routes of Exposure

Eye contact; skin contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Potassium hydroxide	Not available	273 mg/kg (rat)	> 1260 mg/kg (rabbit)

Skin Corrosion/Irritation

Causes severe irritation and burns to the skin.

Serious Eye Damage/Irritation

Causes serious eye damage.

STOT (Specific Target Organ Toxicity) - Single Exposure**Ingestion**

Burning in mouth and esophagus: nausea, vomiting, abdominal pain and diarrhea. Perforation of gastrointestinal tract may occur.

Carcinogenicity

Chemical Name	IARC	NTP	OSHA	ACGIH®
Potassium hydroxide	Not evaluated	Not Listed	Not Listed	Not designated

No information was located for: Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION**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**

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

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SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1814	Potassium hydroxide solution	8	II
US DOT	1814	Potassium hydroxide solution	8	II

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

SECTION 16. OTHER INFORMATION

SDS Prepared By Technical Service Department, Epsilon Chemicals

Phone No. (780) 438-3040

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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).

Disclaimer The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.

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