

AQ SANITIZER

SECTION 1. IDENTIFICATION

Product Identifier AQ SANITIZER
Other Means of Identification EC-107
Recommended Use Cleaning product.
Manufacturer Epsilon Chemicals Ltd., 1926-94 Street N.W., Edmonton, Alberta, T6N1J3, (780) 438-3040
Emergency Phone No. CANUTEC, (613) 996-6666, 24/7

SECTION 2. HAZARD IDENTIFICATION

Classification

Acute toxicity (Oral) - Category 5; Acute toxicity (Inhalation) - Category 4; Skin corrosion - Category 1B; Eye irritation - Category 2

Label Elements



Signal Word:
Danger

Hazard Statement(s):

Causes severe skin burns and eye damage.
Causes serious eye damage.
Harmful if swallowed.
May cause respiratory irritation.

Precautionary Statement(s):

Prevention:

Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Get immediate medical advice/attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
If skin irritation or rash occurs: Get medical advice or attention.
IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.
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:

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

Disposal:

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Phosphoric acid	7664-38-2	15-40		
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	3-7		
Alkyl dimethyl ethyl benzyl ammonium chloride (C12-18)	68956-79-6	3-7		

Notes

Concentrations are expressed in % weight/weight.
Actual concentrations are withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove from exposure. If breathing is difficult or discomfort persists, get medical attention.

Skin Contact

Wash off with water. If irritation persists, get medical attention.

Eye Contact

Flush with plenty of water for 15 minutes. If irritation persists, get medical attention.

Ingestion

DO NOT induce vomiting. Give large quantities of water, milk, egg whites or milk of magnesia.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

Not applicable.

Specific Hazards Arising from the Product

Hazardous combustion products include irritating and toxic gases and fumes. Hazardous decomposition products include, toxic phosphorous oxide fumes.

Special Protective Equipment and Precautions for Fire-fighters

Use full protective clothing and self-contained breathing apparatus.

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

It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

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Dyke, salvage or neutralize. Soda ash or lime can be used as neutralizing agents if material cannot be salvaged.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

Store in cool, dry, well ventilated area in a closed container away from heat sources, metals and oxidizers.

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]
Phosphoric acid	1 mg/m3	3 mg/m3	1 mg/m3	3 mg/m3		

Appropriate Engineering Controls

Use in a well ventilated area.

Individual Protection Measures

Eye/Face Protection

Chemical workers goggles should be worn.

Skin Protection

Rubber or plastic gloves may be worn to minimize prolonged contact with skin.

Respiratory Protection

In severe exposure, use self contained breathing apparatus.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Odour	Acidic
pH	< 1
Melting Point/Freezing Point	Not available (freezing)
Boiling Range	Not available
Flash Point	Not available
Evaporation Rate	Not available
Vapour Pressure	Not available
Vapour Density (air = 1)	3.4
Relative Density (water = 1)	~ 1.19
Solubility	Very soluble in water
Other Information	
Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

If in combustion, toxic gases may be liberated.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Hazardous combustion products- toxic fumes of oxides of phosphorous, ammonia, nitrous oxides and hydrogen

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chloride.

Conditions to Avoid

High temperatures.

Incompatible Materials

Contact with alkaline materials, reactive metals and oxidizing materials.

Hazardous Decomposition Products

At flame temperatures, will emit toxic phosphorous oxide fumes.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Phosphoric acid	1.689 mg/L (rabbit) (1-hour exposure)	1530 mg/kg (rat)	2740 mg/kg (rabbit)
Alkyl dimethyl benzyl ammonium chloride (C12-16)	Not available	426 mg/kg (rat)	Not available

Serious Eye Damage/Irritation

Severe irritation, chemical burn likely. May cause permanent damage and possible blindness.

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

May cause severe irritation to eyes, throat and upper respiratory tract.

Skin Absorption

Severe irritation, corrosive to tissue.

Ingestion

May cause severe burns to mouth, throat, esophagus and stomach. May cause nausea and vomiting. Risk of stomach perforation, convulsions, and coma.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Phosphoric acid	Not evaluated	Not designated	Not Listed	Not Listed
Alkyl dimethyl benzyl ammonium chloride (C12-16)	Not Listed	Not designated	Not Listed	Not Listed
Alkyl dimethyl ethyl benzyl ammonium chloride (C12-18)	Not Listed	Not designated	Not Listed	Not Listed

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.

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

If material cannot be salvaged, it should be neutralized and discharged into a treatment system in accordance with all local, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1805	Phosphoric Acid solution (Phosphoric acid)	Class 8	III
US DOT	1805	Phosphoric Acid solution (Phosphoric acid)	Class 8	III

Special Precautions Not applicable

Transport in Bulk according to International Maritime Organization Instruments

Not applicable

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.

SECTION 16. OTHER INFORMATION

SDS Prepared By Technical Service Department, Epsilon Chemicals

Phone No. (780) 438-3040

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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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