

## REACTION

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	REACTION
<b>Other Means of Identification</b>	Ceramic cleaner
<b>Other Identification</b>	4600
<b>Recommended Use</b>	Ceramic cleaner.
<b>Restrictions on Use</b>	For industrial and institutional use only.
<b>Manufacturer/Supplier Identifier</b>	Lalema inc., 11450 Sherbrooke Street East, Montreal East, Quebec, H1B 1C1, 514.645.2753, www.lalema.com
<b>Emergency Phone No.</b>	Quebec Poison Control Centre, 1.800.463.5060 Canutec, +1 613.996.6666, 24/7
<b>SDS No.</b>	00090041

### SECTION 2. HAZARD IDENTIFICATION

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

#### Classification

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

#### Label Elements



Signal Word:

Danger

Hazard Statement(s):

Causes severe skin burns and eye damage.

Causes serious eye damage.

Precautionary Statement(s):

Prevention:

Do not breathe dusts or mists.

Wash hands thoroughly after handling.

Wear eye protection/face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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 CENTRE or doctor.

Specific treatment (see supplemental first aid instruction on this label).

Wash contaminated clothing before reuse.

Storage:

Store locked up.

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

**Other Hazards**

Not applicable.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Propylene glycol monomethyl ether	107-98-2	1.0 - 7.0	
Citric acid	77-92-9	1.0 - 7.0	
Dipropylene glycol monomethyl ether	34590-94-8	1.0 - 5.0	
Alcohols, C9-11, ethoxylated	68439-46-3	1.0 - 5.0	
Glycolic acid	79-14-1	1.0 -5.0	

### SECTION 4. FIRST-AID MEASURES

**First-aid Measures**

**Inhalation**

Move to fresh air. Get medical attention immediately.

**Skin Contact**

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention.

**Eye Contact**

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Ingestion**

Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Immediately call a Poison Centre or a doctor.

**Most Important Symptoms and Effects, Acute and Delayed**

Corrosive effects.

**Immediate Medical Attention and Special Treatment**

**Target Organs**

None known.

**Special Instructions**

Not applicable.

**Medical Conditions Aggravated by Exposure**

None known.

### SECTION 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media**

Dry chemical. Foam. Water fog.

**Unsuitable Extinguishing Media**

None known.

**Specific Hazards Arising from the Product**

None known.

In a fire, the following hazardous materials may be generated: carbon oxides.

### Special Protective Equipment and Precautions for Fire-fighters

Self-contained breathing apparatus and protective clothing.

See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

No special precautions are necessary. 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

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Flush spill area.

### Other Information

Contact supplier, local fire and emergency services for help.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Do not swallow. Only use where there is adequate ventilation. Prevent accidental contact with incompatible chemicals.

### Conditions for Safe Storage

Keep container tightly closed and in a well-ventilated place. Store away from heat and light.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Dipropylene glycol monomethyl ether	100 ppm	150 ppm				

### Appropriate Engineering Controls

Showers, Eyewash stations and ventilation systems.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles.

#### Skin Protection

Wear suitable protective clothing.

#### Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

**Appearance** Clear blue liquid.

**Odour** Unscented

**Odour Threshold** Not available

**pH** 0.0 - 2.3

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<b>Melting Point/Freezing Point</b>	Not available (melting); ~ 0 °C (freezing)
<b>Initial Boiling Point/Range</b>	~ 100 °C
<b>Flash Point</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/Lower Flammability or Explosive Limit</b>	Not applicable (upper); Not applicable (lower)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	1.025 - 1.045
<b>Solubility</b>	Soluble in water
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic); Not available (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid

## SECTION 10. STABILITY AND REACTIVITY

### 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.

### Conditions to Avoid

High temperatures. Freezing.

### Incompatible Materials

Strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide), strong oxidizing agents (e.g. perchloric acid), strong reducing agents (e.g. hydrides).

### Hazardous Decomposition Products

Carbon oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

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

### Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Propylene glycol monomethyl ether	> 25.8 mg/L (rat) (6-hour exposure) (vapour)	4016 mg/kg (rat)	> 2000 mg/kg (rabbit)
Citric acid	Not available	3 mg/kg (rat)	Not available
Dipropylene glycol monomethyl ether	> 275 ppm (rat) (7-hour exposure)	> 5000 mg/kg (rat)	> 9500 mg/kg (rat)

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Alcohols, C9-11, ethoxylated	Not available	1400 mg/kg (rat)	> 5000 mg/kg (rat)
Glycolic acid	Not available	2040 mg/kg (rat)	> 5000 mg/kg

**Skin Corrosion/Irritation**

Corrosive to skin.

**Serious Eye Damage/Irritation**

Corrosive to eyes.

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

**Inhalation**

No information was located.

**Skin Absorption**

No information was located.

**Ingestion**

No information was located.

**Aspiration Hazard**

No information was located.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**

No information was located.

**Respiratory and/or Skin Sensitization**

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

**Carcinogenicity**

Not known to cause cancer.

**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.

No information was located for: STOT (Specific Target Organ Toxicity) - Single Exposure, STOT (Specific Target Organ Toxicity) - Repeated Exposure, Respiratory and/or Skin Sensitization, Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

**SECTION 12. ECOLOGICAL INFORMATION**

This section is not required by WHMIS.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

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

**SECTION 14. TRANSPORT INFORMATION**

Not regulated under Canadian TDG regulations.

**Special Precautions** Not applicable

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Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

This section is not required by WHMIS.

## SECTION 16. OTHER INFORMATION

**SDS Prepared By** Lalema inc. Laboratory

**Date of Preparation** février 09, 2017

**Date of Last Revision** février 09, 2017

**Disclaimer** The information herein cannot be reproduced without our written authorization. It is based on experiments and is from sources we believe reliable. Since the use of this product is beyond our control, our only obligation shall be to replace any quantity of product which is proven defective. We cannot assume any risk or liability for results obtained, nor can we accept damages in excess of the purchase price of the product itself, which does not include labour or any consequential damages resulting from the use of this product. Determining the suitability of the product for any intended use shall be solely the responsibility of the user.

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