



## Excalibur 3000

### SECTION 1. IDENTIFICATION

**Product Identifier** Excalibur 3000  
**Recommended Use** Acid Cleaner.  
**Manufacturer/Supplier Identifier** Excalibur Chemicals, 1120 McDonald St., Regina, SK, S4N 4X3, 306-569-2781, www.excaliburindustrial.com  
**Emergency Phone No.** Canutec, (613) 996-6666, Collect calls accepted or dial 666 on your cellular  
**SDS No.** 1

### SECTION 2. HAZARD IDENTIFICATION

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

#### Classification

Corrosive to metals - Category 1; Acute toxicity (Oral) - Category 4; Skin corrosion - Category 1C; Eye irritation - Category 2A; Carcinogenicity - Category 1A

#### Label Elements



#### Danger

Causes severe skin burns and eye damage.

May cause cancer.

May be corrosive to metals.

Wash hands thoroughly after handling.

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

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

Call a POISON CENTRE or doctor if you feel unwell.

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

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Phosphoric acid solutions	7664-38-2	30-60	
2-Butoxyethanol	111-76-2	7-13	
Citric acid	77-92-9	1-5	

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

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

#### **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.

#### **Eye Contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### **Ingestion**

Rinse mouth with water. Drink 1 or 2 glasses of water. 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**

Review Section 11 (Toxicological) of this Safety Data Sheet.

### **Immediate Medical Attention and Special Treatment**

#### **Special Instructions**

Treat Symptomatically.

## **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Not combustible. Use extinguishing agent suitable for surrounding fire.

### **Specific Hazards Arising from the Product**

See Section 9 (Physical and Chemical Properties) for flash point and explosive limits.

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

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

## **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**

Do not allow into any sewer, on the ground or into any waterway.

### **Methods and Materials for Containment and Cleaning Up**

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up. Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Large spills or leaks: dike spilled product to prevent runoff. Review Section 13 (Disposal Considerations) of this safety data sheet.

### **Other Information**

Report spills to local health, safety and environmental authorities, as required.

## **SECTION 7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Wear personal protective equipment to avoid direct contact with this chemical. Prevent accidental contact with incompatible chemicals. Keep containers tightly closed when not in use or empty.

### **Conditions for Safe Storage**

Separate from incompatible materials (see Section 10: Stability and Reactivity). Store in the original, labelled, shipping container. Comply with all applicable health and safety regulations, fire and building codes.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
2-Butoxyethanol	20 ppm A3		25 ppm Skin			
Citric acid	Not established		Not established			
Phosphoric acid solutions	1 mg/m3	3 mg/m3				

### Appropriate Engineering Controls

The hazard potential of this product is relatively low. General ventilation is usually adequate.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

#### Respiratory Protection

Wear a NIOSH approved particulate respirator equipped with an N95, R95, or P95 filter.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Clear colourless liquid.
Odour	Pungent
Odour Threshold	Not available
pH	0.70
Initial Boiling Point/Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.3
Solubility	Soluble in water
Other Information	
Physical State	Liquid

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Reacts Vigorously with alkaline materials and metals.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

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**Conditions to Avoid**

Freezing. Incompatible materials.

**Incompatible Materials**

Metals (e.g. aluminum), oxidizing agents (e.g. peroxides).

**Hazardous Decomposition Products**

Carbon oxides, oxides of phosphorus other unidentified organic compounds.

**SECTION 11. TOXICOLOGICAL INFORMATION**

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

**Likely Routes of Exposure**

Inhalation; skin contact; skin absorption; eye contact; ingestion.

**Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
2-Butoxyethanol	925 ppm (rat) (4-hour exposure)	530 mg/kg (female rat)	
Citric acid		3000 mg/kg (rat)	
Phosphoric acid solutions	> 213 mg/m <sup>3</sup> (rat) (4-hour exposure)	1530 mg/kg (rat)	

**Skin Corrosion/Irritation**

Repeated or prolonged exposure can irritate or burn the skin.

**Serious Eye Damage/Irritation**

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

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

May cause nose and throat irritation.

**Skin Absorption**

Prolonged or repeated exposure can cause drying, defatting and dermatitis. May be absorbed through the skin in toxic amounts if contact is repeated and prolonged; may cause blood damage based on published data; these effects have not been observed in humans. (2-Butoxyethanol)

**Ingestion**

Harmful May cause severe irritation or burns to the mouth, throat and stomach.

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

Effects similar to STOT (Specific Target Organ Toxicity) - Single Exposure, as described above.

**Respiratory and/or Skin Sensitization**

Not a respiratory sensitizer. Not a skin sensitizer.

**Carcinogenicity**

Chemical Name	IARC	ACGIH®	NTP	OSHA
2-Butoxyethanol	Group 3	A3	Not Listed	Not Listed
Citric acid	Not Listed	Not designated	Not Listed	Not Listed
Phosphoric acid solutions	Group 1	Not designated	Not Listed	Not Listed

(2-Butoxyethanol) Group 3 – Not classifiable as to its carcinogenicity to humans. A3 – Confirmed animal carcinogen.

(Phosphoric acid solutions) Group 1 – Carcinogenic to humans.

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

## SECTION 12. ECOLOGICAL INFORMATION

Environmental information was not located.

### Ecotoxicity

No data is available on the product itself. It is good practice to prevent releases into the environment.

### 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.

## SECTION 14. TRANSPORT INFORMATION

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

**Environmental Hazards** Environmentally Hazardous Substance (Phosphoric acid solutions)

**Emergency Response Guide No.** 154

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

##### WHMIS 1988 Classification

E - Corrosive

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.

##### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

##### CEPA - National Pollutant Release Inventory (NPRI)

(2-Butoxyethanol) Part 1A, Part 5.

#### USA

##### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

**NFPA Rating** Health - 3 Flammability - 0 Instability - 0  
**SDS Prepared By** Excalibur Industrial

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**Key to Abbreviations** ACGIH® = American Conference of Governmental Industrial Hygienists  
AIHA® = AIHA® Guideline Foundation. HSDB® = Hazardous Substances Data Bank  
IARC = International Agency for Research on Cancer  
NFPA = National Fire Prevention Association  
NIOSH = National Institute for Occupational Safety and Health  
NTP = National Toxicology Program  
OSHA = US Occupational Safety and Health Administration  
RTECS® = Registry of Toxic Effects of Chemical Substances

**References** CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

**Disclaimer** Information for this SDS was obtained from sources considered technically accurate and reliable. While every effort has been made to insure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements GHS/WHMIS 2015. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form.

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