



## Excalibur 4000

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Excalibur 4000
<b>Recommended Use</b>	Biodegradable Citrus Cleaner/Degreaser.
<b>Manufacturer/Supplier Identifier</b>	Excalibur Chemicals, 1120 McDonald St., Regina, SK, S4N 4X3, 306-569-2781, www.excaliburindustrial.com
<b>Emergency Phone No.</b>	Canutec, (613) 996-6666, Collect calls accepted or dial 666 on your cellular
<b>SDS No.</b>	1

### SECTION 2. HAZARD IDENTIFICATION

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

#### Classification

Acute toxicity (Oral) - Category 5; Skin irritation - Category 2; Eye irritation - Category 2A; Skin sensitization - Category 1A

#### Label Elements



Danger

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

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

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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

Immediately call a POISON CENTRE or doctor.

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
Sodium Metasilicate	6834-92-0	1-5	
Poly(oxy-1,2-ethanediyl), alpha-decyl-omega-hydroxy-	26183-52-8	1-5	
d-Limonene	5989-27-5	1-5	
Sodium carbonate	497-19-8	0.5-1.5	
Tetrasodium ethylenediaminetetraacetate	64-02-8	0.5-1.5	

### SECTION 4. FIRST-AID MEASURES

Product Identifier:	Excalibur 4000
SDS No.:	1
Date of Preparation:	December 19, 2016

## First-aid Measures

### Inhalation

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

### Skin Contact

Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. Clean clothing, shoes and leather goods.

### 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.

---

Product Identifier: Excalibur 4000  
SDS No.: 1  
Date of Preparation: December 19, 2016

## 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.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Sodium Metasilicate	Not established		Not established			
Sodium carbonate	Not established		Not established			
Poly(oxy-1,2-ethanediyl), alpha-decyl-omega-hydroxy-	Not established		Not established			
d-Limonene	Not established				30 ppm	
Tetrasodium ethylenediaminetetraacetate	Not established		Not established			

### Appropriate Engineering Controls

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 amber liquid.
Odour	Citrus
Odour Threshold	Not available
pH	12.73
Initial Boiling Point/Range	98 °C
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)	1.04
Solubility	Soluble in water
Other Information	
Physical State	Liquid

Product Identifier: Excalibur 4000  
SDS No.: 1  
Date of Preparation: December 19, 2016

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Reacts vigorously with acids.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Freezing. Incompatible materials.

### Incompatible Materials

Oxidizing agents (e.g. peroxides), strong acids (e.g. hydrochloric acid).

### 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)
Sodium Metasilicate		600 mg/kg (rat)	
Sodium carbonate	1150 mg/m <sup>3</sup> (rat) (4-hour exposure)	4090 mg/kg (rat)	
Poly(oxy-1,2-ethanediyl), alpha-decyl-omega-hydroxy-	Not available	Not available	
d-Limonene		4400 mg/kg (rat)	
Tetrasodium ethylenediaminetetraacetate		Not available	

### Skin Corrosion/Irritation

Human experience shows moderate or severe irritation.

### Serious Eye Damage/Irritation

Causes serious eye irritation based on skin irritation information.

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

#### Inhalation

May cause severe nose and throat irritation.

#### Skin Absorption

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

#### 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

Skin sensitizer. (d-Limonene)

### Carcinogenicity

Product Identifier: Excalibur 4000  
SDS No.: 1  
Date of Preparation: December 19, 2016

Chemical Name	IARC	ACGIH®	NTP	OSHA
Sodium Metasilicate	Not Listed	Not designated	Not Listed	Not Listed
Sodium carbonate	Not Listed	Not designated	Not Listed	Not Listed
Poly(oxy-1,2-ethanediyl), alpha-decyl-omega-hydroxy-	Not Listed	Not designated	Not Listed	Not Listed
d-Limonene	Group 3	Not designated	Not Listed	Not Listed
Tetrasodium ethylenediaminetetraacetate	Not Listed	Not designated	Not Listed	Not Listed

(d-Limonene) Group 3 – Not classifiable as to its carcinogenicity 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

Not regulated under Canadian TDG regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group

**Special Precautions** Not applicable

### Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

#### WHMIS 1988 Classification

D2B - Toxic (Skin irritant; Eye irritant; Skin sensitization)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and

Product Identifier: Excalibur 4000  
 SDS No.: 1  
 Date of Preparation: December 19, 2016

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)**

(d-Limonene) 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 - 2**    **Flammability - 0**    **Instability - 0**

**SDS Prepared By**                Excalibur Industrial

**Phone No.**                        306-569-2781

**Date of Preparation**            December 19, 2016

**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.