

# MATERIAL SAFETY DATA SHEET

## SECTION I - PRODUCT IDENTIFICATION AND PREPARATION INFORMATION

**Product Name:** EXCALIBUR 4100

**Product Use:** Citrus Cleaner/Degreaser

**WHMIS Class:** Class D2B  
Class B - Division 3; Combustible Liquid

**T.D.G. Classification:** Not Regulated for Containers Less than 454 Litres

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0
PERSONAL PROTECTION	B

**Manufacturer Name and Address:** Excalibur Industrial  
PO Box 1577  
Regina, SK S4P 3C4

**Emergency Telephone: (306) 569-2781**

## SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>Wt%</u>	<u>ACGIH-TLV</u>	<u>LC<sub>50</sub></u>	<u>LD<sub>50</sub></u>
d-Limonene	5989-27-5	10-30	Not available	13.3 mg/L 4 h, rat	4400 mg/kg oral, rat
Alcohol C-10 ethoxylated	26183-52-8	5-10	Not available	Not available	
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	1-5	Not available	Not available	2700 mg/kg oral, rat
Diethanolamine	111-42-2	1-5	2 mg/m <sup>3</sup> Skin	Not available	>710 mg/kg oral, rat

## SECTION III - PHYSICAL DATA

**Boiling Point (deg C):** 95.5

**Vapour Pressure (mm Hg):** Not available

**Vapour Density (Air = 1):** Not available

**Solubility in Water:** Emulsifiable

**Physical State:** Liquid

**Appearance and Odour:** Amber with citrus odour

**Specific Gravity (H<sub>2</sub>O = 1):** 0.994

**Percent Volatile (Wt %, 1 h @ 105°C):** 82.5

**Evaporation Rate (BuAc = 1):** Not available

**pH (as supplied):** 8.5

**Viscosity:** Slightly viscous

**Odour Threshold (ppm):** Not available

## SECTION IV - FIRE AND EXPLOSION DATA

**Flammability:** Combustible liquid by WHMIS criteria.

**Flash Point (deg C, TCC):** 54.5      **LEL:** 0.7 (d-Limonene)      **UEL:** 6.1 (d-Limonene)

**Hazardous Combustion Products:** May include and are not limited to oxides of carbon, oxides of nitrogen, ammonia.

**Means of Extinction:** Dry chemical, carbon dioxide and alcohol foam.

**Special Fire Hazards:** Firefighters should wear self-contained breathing apparatus.

## SECTION V - REACTIVITY DATA

**Conditions for Chemical Instability:** Stable.

**Incompatible Materials:** Strong oxidizing agents.

**Reactivity, and Under What Conditions:** Not available.

**Hazardous Decomposition Products:** May include and are not limited to oxides of carbon, oxides of nitrogen, ammonia when heated to decomposition.

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**SECTION VI - TOXICOLOGICAL PROPERTIES**

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**Route of Entry:** Eye, Skin contact, Inhalation, Ingestion

**EFFECTS OF ACUTE EXPOSURE:**

**Eye:** May cause irritation.

**Skin:** May cause irritation. Contains a potential skin sensitizer (d-Limonene).

**Inhalation (of mist):** May cause respiratory tract irritation, coughing and headache.

**Ingestion:** May cause stomach distress, nausea or vomiting.

**EFFECTS OF CHRONIC EXPOSURE:**

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

**Irritancy:** Hazardous by WHMIS criteria.

**Respiratory Tract Sensitization:** No data available

**Carcinogenicity:** Non-hazardous by WHMIS criteria.

**Teratogenicity, Mutagenicity, Reproductive Effects:** No data available.

**Synergistic Materials:** Not available.

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**SECTION VII- PREVENTATIVE MEASURES**

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**Gloves:** PVC, latex rubber or natural rubber. Confirm with reputable supplier first.

**Eye Protection:** Safety glasses.

**Respiratory Protection:** Not normally required if good ventilation is maintained.

**Other Protective Equipment:** As required by employer code.

**Engineering Controls:** General ventilation normally adequate.

**Leak and Spill Procedure:** Before attempting cleanup, refer to hazard data given above. Remove sources of ignition. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

**Waste Disposal:** Review federal, provincial and local government requirements prior to disposal.

**Storage and Handling Requirements:** Keep out of reach of children. Store in closed container away from incompatible materials. Avoid heat, open flame and other sources of ignition in the use and storage of this product.

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**SECTION VIII - FIRST AID**

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**Eye:** Immediately flush with water. Remove contact lenses, if applicable, and continue rinsing for 15 minutes. Obtain medical attention if irritation persists.

**Skin:** Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Obtain medical attention if irritation persists. Discard or wash well before reuse.

**Inhalation:** Move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion:** Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Obtain medical attention immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

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**SECTION IX - PREPARATION INFORMATION**

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**Date:** 06/01/09

**MSDS Prepared By:** Excalibur Industrial

**Phone Number:** (306) 569-2781

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**Disclaimer**

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure 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 of WHMIS. 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. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8466) or CSST in Montreal, Quebec (514-873-3990).

