

## MATERIAL SAFETY DATA SHEET

**Company Name:** C.R. LAURENCE CO., INC.  
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**City / State / Zip:** LOS ANGELES / CA / 90058  
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**US-CHEMTREC Phone(II):** (703)527-3887  
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**Vendor Update:** 9/11/2013  
**Date Prepared:** 9/11/2013  
**MSDS Number:** 1973 ; 1973LL30 ; 1973LL50 ; 1973PL ;

### I. CHEMICAL PRODUCT IDENTIFICATION

**Product Name:** PROFESSIONAL GLASS CLEANER  
**HMIS Ratings:**

Health: Slight(1)  
 Flammability: Moderate(2)  
 Instability/Reactivity: Minimal(0)

**NFPA Ratings:**

**Other:** EMERGENCY OVERVIEW: AEROSOL. CONTENTS UNDER PRESSURE. HARMFUL IN CONTACT WITH EYES. PROLONGED EXPOSURE MAY CAUSE CHRONIC EFFECTS. WILL BE EASILY IGNITED BY HEAT, SPARK OR FLAMES.

### II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
2-BUTOXYETHANOL	111-76-2	5 - 8	20 PPM NOT ESTABLISHED	50 PPM NOT ESTABLISHED	CEILING: NOT ESTABLISHED CEILING: NOT ESTABLISHED		
<b>Notes</b>							
ISOPROPYL ALCOHOL	67-63-0	1 - 3	200 PPM 400 PPM	400 PPM NOT ESTABLISHED	CEILING: NOT ESTABLISHED CEILING: NOT ESTABLISHED		
<b>Notes</b>							
PROPANE	74-98-6	1 - 3	1000 PPM NOT ESTABLISHED	1000 PPM NOT ESTABLISHED	CEILING: NOT ESTABLISHED CEILING: NOT ESTABLISHED		
<b>Notes</b>							
N-BUTANE	106-97-8	1 - 3	1000 PPM NOT ESTABLISHED		CEILING: NOT ESTABLISHED		
<b>Notes</b>							
NON-HAZARDOUS AND OTHER COMPONENTS BELOW REPORTABLE LEVELS		80 - 90					
<b>Notes</b>							

### III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

**Eyes:** CONTACT MAY IRRITATE OR BURN EYES. EYE CONTACT MAY RESULT IN CORNEAL INJURY.

**Skin:** THIS PRODUCT MAY BE HARMFUL IF IT IS ABSORBED THROUGH THE SKIN. PROLONGED OR REPEATED CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS (RASH).

**Ingestion:** EXPOSURE BY INGESTION OF AN AEROSOL IS UNLIKELY. MAY CAUSE DELAYED LUNG DAMAGE. COMPONENTS OF THE PRODUCT MAY BE

ABSORBED INTO THE BODY BY INGESTION.

**Inhalation:** INTENTIONAL MISUSE BY CONCENTRATING AND INHALING THE PRODUCT CAN BE HARMFUL OR FATAL. PROLONGED INHALATION MAY BE HARMFUL.

**Other:** ROUTES OF EXPOSURE: INGESTION. SKIN CONTACT. EYE CONTACT. Target organs:  
2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been observed in humans.  
Blood. Central nervous system. Lungs

Chronic effects  
Unconsciousness. Conjunctiva. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage. Prolonged skin contact may defat the skin and produce dermatitis.

#### IV. FIRST AID MEASURES

**Eyes:** IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. GET IMMEDIATE MEDICAL ATTENTION.

**Skin:** IMMEDIATELY TAKE OFF ALL CONTAMINATED CLOTHING. WASH OFF WITH WARM WATER AND SOAP. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

**Ingestion:** IF MATERIAL IS INGESTED, IMMEDIATELY CONTACT A POISON CONTROL CENTER. DO NOT INDUCE VOMITING WITHOUT ADVICE FROM POISON CONTROL CENTER. IF VOMITING OCCURS NATURALLY, HAVE VICTIM LEAN FORWARD TO REDUCE RISK OF ASPIRATION. DO NOT USE MOUTH-TO-MOUTH METHOD IF VICTIM INGESTED THE SUBSTANCE. INDUCE ARTIFICIAL RESPIRATION WITH THE AID OF A POCKET MASK EQUIPPED WITH A ONE-WAY VALVE OR OTHER PROPER RESPIRATORY MEDICAL DEVICE.

**Inhalation:** MOVE TO FRESH AIR. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION.

**Other:** NOTE TO PHYSICIANS  
SYMPTOMS MAY BE DELAYED

#### V. FIRE FIGHTING MEASURES

**Flash Point:** -156 °F (-104.4 °C) Propellant

**Extinguishing Agents:** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unusual Fire or Explosion Hazards:** Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

**Fire Fighting Procedures:** In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

#### VI. ACCIDENTAL RELEASE MEASURES

**Containment/Cleanup:** METHODS FOR CONTAINMENT  
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk. Prevent entry into waterways,

sewers, basements or confined areas.

Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills:

Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

## VII. HANDLING AND STORAGE

<b>Other:</b>	<p><b>HANDLING</b></p> <p>Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Do not smoke while using or until sprayed surface is thoroughly dry. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure.</p> <p><b>STORAGE</b></p> <p>Level 1 Aerosol.</p> <p>Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks, and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep the container dry. Keep out of the reach of children. Level 1 Aerosol (NFPA 30B) Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.</p>
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## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Eyes:</b>	WEAR CHEMICAL GOGGLES.
<b>Skin:</b>	Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.
<b>Respiratory:</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Yellow
<b>Boiling Point:</b>	Compressed liquefied gas. 210.2 °F (98.9 °C) estimated
<b>Freezing Point:</b>	NOT AVAILABLE
<b>pH:</b>	9.88 – 10.88
<b>Solubility in Water:</b>	COMPLETELY
<b>Specific Gravity:</b>	0.9617 estimated
<b>Vapor Pressure:</b>	85 – 95 psig @ 70F
<b>Vapor Density:</b>	ND (AIR = 1)
<b>Physical State:</b>	LIQUID
<b>Other:</b>	Density: 0.9616 g/cm <sup>3</sup> estimated FLAMMABILITY (HOC): 3.7095 kJ/g estimated FLASH BACK: NO FORM: LIQUID, AEROSAL

## X. STABILITY AND REACTIVITY

<b>Stability:</b>	RISK OF IGNITION.
<b>Hazardous Decomposition Products:</b>	No hazardous decomposition products are known.
<b>Conditions To Avoid:</b>	HEAT, FLAMES AND SPARKS.

**XI. TOXICOLOGICAL INFORMATION**

<b>Acute Toxicology Data:</b>	ACUTE EFFECTS: Acute LD50: 4348 mg/kg estimated, Rat, Dermal ACUTE LD50: 4355 MG/KG ESTIMATED, RAT, DERMAL. ACUTE LC50: 39 MG/L/4H ESTIMATED, RAT, INHALATION.  Component analysis – LD50 Toxicology Data – Selected LD50s and LC50s 2-Butoxyethanol ; CAS.NO. 111-76-2 ; Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat 470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rabbit 220 mg/kg Isopropyl Alcohol ; CAS.NO. 67-63-0 ; Inhalation LC50 Rat 72.6 mg/L 4 h; Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rat 12800 mg/kg; Dermal LD50 Rabbit 12870 mg/kg n-Butane ; CAS.NO. 106-97-8 ; Inhalation LC50 Rat 658 mg/L 4 h Propane ; CAS.NO. 74-98-6 ; Inhalation LC50 Rat 658 mg/L 4 h
<b>Special Hazard Information:</b>	SENSITIZATION: NOT EXPECTED TO BE HAZARDOUS BY OSHA CRITERIA.  Teratogenicity: Not expected to be hazardous by OSHA criteria.

**XII. ECOLOGICAL INFORMATION**

<b>Environmental Fate and Distribution:</b>	COMPONENTS OF THIS PRODUCT HAVE BEEN IDENTIFIED AS HAVING POTENTIAL ENVIRONMENTAL CONCERNS.
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**XIII. DISPOSAL CONSIDERATIONS**

<b>Disposal Method:</b>	Contents under pressure. Do not puncture, incinerate or crush. Dispose of this material and its container at hazardous or special waste collection point. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.
<b>RCRA Class:</b>	D001: WASTE FLAMMABLE MATERIAL*
<b>Other:</b>	*WITH A FLASH POINT <140°F

**XIV. TRANSPORT INFORMATION**

<b>D.O.T. Shipping Name:</b>	CONSUMER COMMODITY
<b>D.O.T. Hazard Class:</b>	ORM-D
<b>Other:</b>	SUBSIDIARY HAZARD CLASS: NONE PACKAGING EXCEPTIONS: 156,306 PACKAGING NON BULK: 156,306 PACKAGING BULK: NONE

**XV. REGULATORY INFORMATION**

<b>TSCA Status:</b>	ALL COMPONENTS ARE ON THE U.S. EPA TSCA INVENTORY LIST.
<b>EPA Sara Title III Chemical Listings:</b>	CERCLA (SUPERFUND) REPORTABLE QUANTITY: NONE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE: NO SECTION 311 HAZARDOUS CHEMICAL: YES HAZARD CATEGORIES (311/312): IMMEDIATE HAZARD: YES DELAYED HAZARD: YES FIRE HAZARD: YES PRESSURE HAZARD: YES REACTIVITY HAZARD: NO

**Pennsylvania:** U.S.– PENNSYLVANIA – RTK (RIGHT TO KNOW) LIST  
2–BUTOXYETHANOL; CAS.NO. 111–76–2; PRESENT  
ISOPROPYL ALCOHOL; CAS.NO. 67–63–0; ENVIRONMENTAL HAZARD  
N–BUTANE; CAS.NO. 106–97–8; PRESENT  
PROPANE; CAS.NO. 74–98–6; PRESENT

**Other:** INVENTORY STATUS  
COUNTRY(S) OR REGION / INVENTORY NAME / ON INVENTORY (YES/NO)\*  
CHINA / INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA (IECSC) / YES  
EUROPE / EUROPEAN INVENTORY OF NEW AND EXISTING CHEMICALS (EINECS) / NO  
EUROPE / EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES (ELINCS) / NO  
JAPAN / INVENTORY OF EXISTING AND NEW CHEMICAL SUBSTANCES (ENCS) / NO  
KOREA / EXISTING CHEMICALS LIST (ECL) / YES  
UNITED STATES AND PUERTO RICO / TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY / YES  
\*A "YES" INDICATES THAT ALL COMPONENTS OF THIS PRODUCT COMPLY WITH THE INVENTORY REQUIREMENTS ADMINISTERED BY THE GOVERNING COUNTRY(S).

#### XVI. OTHER INFORMATION

##### WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.