



MATERIAL SAFETY DATA SHEET

CHROMATE INDUSTRIAL CORPORATION®

5250-A Naiman Parkway, Solon, OH 44139 • 888-567-2206 • www.chromate.com

**FOR CHEMICAL
EMERGENCY**

Call ChemTrec day/night:
1-800-424-9300

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: RED LION GLASS CLEANER

DATE PREPARED: APRIL 22, 2009

PART NUMBER: 74120

CHROMATE INDUSTRIAL CORPORATION

PRODUCT TYPE: GLASS CLEANER

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SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Aerosol. Harmful in contact with eyes. CONTENTS UNDER PRESSURE. Pressurized container may explode when exposed to heat or flame. Prolonged exposure may cause chronic effects.

POTENTIAL HEALTH EFFECTS

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).

Inhalation: Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful.

Ingestion: Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause delayed lung damage.

Target Organs: Kidney.

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. Liver. Respiratory system.

CHRONIC EFFECTS: Conjunctiva. Liver injury may occur. Kidney injury may occur. 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.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS #	PERCENT
ISOPROPYL ALCOHOL	67-63-0	3 - 5
2-BUTOXYETHANOL	111-76-2	3 - 5
PROPANE	74-98-6	1 - 3
N-BUTANE	106-97-8	1 - 3
NON-HAZARDOUS AND OTHER COMPONENTS BELOW REPORTABLE LEVELS		80 - 90

SECTION 4 – FIRST AID MEASURES

FIRST AID PROCEDURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact: Wash off with warm water and soap. Get medical attention if irritation develops or persists.

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion: Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. 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.

N/A — NOT APPLICABLE
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

SECTION 5 – FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES: Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back.

EXTINGUISHING MEDIA

Suitable Extinguishing Media: *Large Fires:* Water spray, fog or regular foam.

Small Fires: Dry chemical, CO₂, water spray or regular foam.

PROTECTION OF FIREFIGHTERS

PROTECTIVE EQUIPMENT/PRECAUTIONS FOR FIREFIGHTERS: 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.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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.

METHODS FOR CLEANING UP: *Small Spills:* Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

SECTION 7 – HANDLING AND STORAGE

HANDLING

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. 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.

STORAGE: Level 1 Aerosol. Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Avoid exposure to long periods of sunlight. Keep the container dry. Keep in an area equipped with sprinklers. *KEEP OUT OF THE REACH OF CHILDREN.*

SECTION 8 – EXPOSURE CONTROLS / SPECIAL PROTECTION

EXPOSURE LIMITS

ACGIH:

COMPONENTS	CAS #	TWA	STEL	CEILING
ISOPROPYL ALCOHOL	67-63-0	200 ppm	400 ppm	N/E
2-BUTOXYETHANOL	111-76-2	20 ppm	N/E	N/E
PROPANE	74-98-6	1000 ppm	N/E	N/E
N-BUTANE	106-97-8	1000 ppm	N/E	N/E

OSHA:

COMPONENTS	CAS #	TWA	STEL	CEILING
ISOPROPYL ALCOHOL	67-63-0	400 ppm	N/E	N/E
2-BUTOXYETHANOL	111-76-2	50 ppm	N/E	N/E
PROPANE	74-98-6	1000 ppm	N/E	N/E

PERSONAL PROTECTIVE EQUIPMENT:

EYE / FACE PROTECTION: Wear chemical goggles.

SKIN PROTECTION: Wear appropriate chemical resistant gloves.

RESPIRATORY PROTECTION: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

N/A — NOT APPLICABLE
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES**APPEARANCE:** N/A**COLOR:** Colorless**FLASH BACK:** No**FORM:** Aerosol**pH:** 9.5 - 10.5**PRESSURE:** 70 - 80 @ 70°F**SPECIFIC GRAVITY:** 0.9556 estimated**BOILING POINT:** 206.6°F (97.2°C) estimated**FLAMMABILITY (HOC):** 4.006 kJ/g estimated**FLASH POINT:** -156°F (-104.4°C) estimated**ODOR:** Solvent**PHYSICAL STATE:** Liquid**SOLUBILITY:** Completely**SECTION 10 – CHEMICAL STABILITY / REACTIVITY INFORMATION****CHEMICAL STABILITY:** Risk of ignition. Stable at normal conditions.**CONDITIONS TO AVOID:** Heat, flames and sparks.**INCOMPATIBLE MATERIALS:** None known.**HAZARDOUS DECOMPOSITION PRODUCTS:** May include oxides of nitrogen.**SECTION 11 – TOXICOLOGICAL INFORMATION****ACUTE EFFECTS****Acute LD₅₀:** 5577 mg/kg estimated, Rat, Dermal**Acute LC₅₀:** 55 mg/l/4h estimated, Rat, Inhalation**SENSITIZATION:** Not expected to be hazardous by OSHA criteria.**REPRODUCTIVE EFFECTS:** Not expected to be hazardous by OSHA criteria.**TERATOGENICITY:** Not expected to be hazardous by OSHA criteria.**SECTION 12 – ECOLOGICAL INFORMATION****ECOTOXICITY:****LC₅₀:** 27776 mg/L estimated, Fish, 96.00 Hours,**IC₅₀:** 7982 mg/L estimated, Algae, 72.00 Hours,**EC₅₀:** 45110 mg/L estimated, Daphnia, 48.00 Hours,**Components of this product have been identified as having potential environmental concerns.****SECTION 13 – DISPOSAL CONSIDERATIONS****WASTE CODES D001:** Waste Flammable material with a flash point <140°F.**DISPOSAL INSTRUCTIONS:** Contents under pressure. 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.

SECTION 14 – TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT) REQUIREMENTS

BASIC SHIPPING REQUIREMENTS

Proper Shipping Name: Consumer commodity **Hazard Class:** ORM-D
Subsidiary Hazard Class: None

ADDITIONAL INFORMATION

Packaging Exceptions: 156, 306 **Packaging Non-Bulk:** 156, 306
Packaging Bulk: None

IMDG

BASIC SHIPPING REQUIREMENTS

Proper Shipping Name: AEROSOLS **Hazard Class:** 2.1
UN Number: 1950 **Additional information:** N/L
Packaging Exceptions: LTD QTY **Item:** 5F
Labels Required: None **Transport Category:** 2

IATA

BASIC SHIPPING REQUIREMENTS

Proper Shipping Name: AEROSOL, FLAMMABLE **Hazard Class:** 2.1
UN Number: 1950 **Additional information:** N/L
Packaging Exceptions: LTD QTY **Labels Required:** 2.1

SECTION 15 – REGULATORY INFORMATION

US FEDERAL REGULATIONS: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances: Not applicable.

U.S. - CERCLA/SARA - SECTION 313 - EMISSION REPORTING

2-BUTOXYETHANOL	111-76-2	1.0 % de minimis concentration (applies to R-(OCH2CH2)n-OR', where n = 1,2, or 3, R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)
ISOPROPYL ALCOHOL	67-63-0	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR 1910.1200 Hazardous Chemical: Yes
CERCLA (Superfund) Reportable Quantity: None

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

HAZARD CATEGORIES: **Immediate Hazard:** Yes **Delayed Hazard:** Yes
Fire Hazard: Yes **Pressure Hazard:** Yes
Reactivity Hazard: No

SECTION 302: **Extremely Hazardous Substance:** No

SECTION 311: **Hazardous Chemical:** Yes

SECTION 15 (continued) – REGULATORY INFORMATION**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)	Yes
EUROPE	European List of Notified Chemical Substances (ELINCS)	Yes
JAPAN	Inventory of Existing and New Chemical Substances (ENCS)	Yes
KOREA	Existing Chemicals List (ECL)	Yes
UNITED STATES & 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)

STATE REGULATIONS**U.S. - PENNSYLVANIA - RTK (RIGHT TO KNOW) LIST**

2-BUTOXYETHANOL	111-76-2	Present
ISOPROPYL ALCOHOL	67-63-0	Environmental hazard
N-BUTANE	106-97-8	Present
PROPANE	74-98-6	Present

HMIS® RATINGS**HEALTH: 1*****FLAMMABILITY: 2****PHYSICAL HAZARD: 0****SECTION 16 – OTHER INFORMATION**

DISCLAIMER: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.