

**CHEM INTERNATIONAL****MATERIAL SAFETY DATA SHEET****EMERGENCY #: CANUTEC (613) 996-6666****PRODUCT IDENTIFICATION AND PREPARATION INFORMATION****PRODUCT NAME:** C.I Stainless**EFFECTIVE DATE:** January 15, 2009**WHMIS CLASS:** Class E**T.D.G. CLASSIFICATION:** Corrosive liquids N.O.S. (Hydrochloric acid, Lactic Acid)**CLASS:** 8      **UN:** 1760      **PG:** II**MATERIAL USE:** Safety Bowl Cleaner.**HAZARDOUS INGREDIENTS**

<b>INGREDIENTS</b>	<b>CAS #</b>	<b>%Wt/Wt</b>	<b>ACGTH-TLV</b>	<b>LC50</b>	<b>LD50</b>
Lactic Acid (88%)	79-33-4	10-20	N/AV	N/AV	Oral (rabbit) 3730 mg/kg Dermal (rabbit) 7940 mg/kg
Hydrochloric Acid	7647-01-0	7-13	TLV – 5ppm	Inhalation (rat) 3124 ppm/hr	Oral (rabbit) 900mg/kg
Oxalic Acid	N/AV	N/AV	TLV – 1 mg/m <sup>3</sup>	N/AV	N/AV

**PHYSICAL DATA****BOILING POINT(°C):** N/AV**VAPOUR PRESSURE (mm Hg):** N/AV**VAPOUR DENSITY (Air=1):** N/AV**SOLUBILITY IN WATER:** 100%**PHYSICAL STATE:** Liquid**pH (as supplied):** 0.4; 1% solution: 1.8**APPEARANCE AND ODOUR:** Blue viscous with wintergreen fragrance.**COEF. OF WATER/OIL DIST.:****SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 1.106**PERCENT VOLATILE (by weight):****EVAPORATION RATE (H<sub>2</sub>O=1):** N/AV**ODOUR THRESHOLD:** N/AV**FREEZING POINT(°C):** N/AV**FIRE AND EXPLOSION DATA****FLAMMABILITY:****FLASH POINT (Test method):** N/AP**UEL:** N/AP**LEL:** N/AP**HAZARDOUS COMBUSTION PRODUCTS:** May liberate carbon monoxide, carbon dioxide and oxides of sodium.**MEANS OF EXTINCTION:** Use extinguishing media appropriate for surrounding fire.**SPECIAL FIREFIGHTING PROCEDURES:** As for surrounding fire. Fire fighters should wear full protective clothing and self contained breathing equipment..**AUTO IGNITION TEMP.:** N/AP**EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT:** N/AP**STATIC DISCHARGE:** N/AP**REACTIVITY DATA****CHEMICAL STABILITY:** Stable**INCOMPATIBILITY:** ( ) Water (X) Oxidizers ( ) Acid (X) Base ( ) Other**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide on combustion.**REACTIVITY:** Reacts with metals.**FIRST AID****EYE:** Flush with plenty of water for at least 15 minutes. Get medical attention.**SKIN:** Remove contaminated clothing and flush with plenty of water.**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.**INGESTION:** Induce vomiting only on the direct advice of a poison control centre. Drink 1-2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention..

## TOXICOLOGICAL PROPERTIES

**ROUTE OF ENTRY:** Eyes, skin contact, inhalation, ingestion

**EFFECTS OF ACUTE EXPOSURE:**

**EYE:** Corrosive to eyes. Causes severe burns.

**SKIN:** Corrosive to skin. Causes severe burns.

**INHALATION:** Corrosive to respiratory system.

**INGESTION:** Harmful if swallowed. Causes burns to mouth, throat and stomach.

**EFFECTS OF CHRONIC EXPOSURE:**

**INHALATION:** Repeat or prolonged exposure may cause damage to lungs.

**SKIN:** N/AV

**IRRITANCY:** N/AV

**RESPIRATORY TRACT SENSITIZATION:** No known significant effects.

**CARCINOGENICITY:** No known significant effects.

**REPRODUCTIVE TOXIN:** No known significant effects.

**TERATOGENICITY:** No known significant effects.

**MUTAGENICITY:** No known significant effects.

**SYNERGISTIC MATERIALS:** No known significant effects.

**EXPOSURE LIMITS:** N/AV

## PREVENTATIVE MEASURES

**GLOVES:** Rubber gloves may be worn.

**EYE PROTECTION:** Chemical goggles. Wear a face shield if splashing hazards exists.

**RESPIRATORY PROTECTION:** If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator

**OTHER PROTECTIVE EQUIPMENT:** Wear protective clothing as necessary to prevent skin contact.

**ENGINEERING CONTROLS:** Provide exhaust ventilation to keep airborne levels below recommended exposure limits.

**VENTILATION REQUIREMENTS (Local or General):** Use with adequate ventilation.

**LEAK AND SPILL PROCEDURE (including neutralization):** Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

**WASTE DISPOSAL:** Dispose in accordance with federal, provincial and local regulations.

**STORAGE REQUIREMENTS & HANDLING PROCEDURES:** Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. KEEP OUT OF REACH OF CHILDREN. Keep container tightly closed. Store in a cool, dry area.

N/AP= NOT APPLICABLE · N/E=NOT ESTABLISHED · N/D=NOT DETERMINED · N/AV=NOT AVAILABLE  
<=LESS THAN - >=MORE THAN

## HMIS HAZARD RATING INFORMATION

**FIRE**

**REACTIVITY**

**HEALTH**

**PERSONAL PROTECTION**

0 – Minimal, 1- Slight, 2 – Moderate, 3 – Serious, 4 – Extreme.

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 the control of the supplier, it is assumed that the user of this material has been fully trained according to the mandatory requirements of WHIMIS. No warranty, expressed or implied is made, and supplier will not be liable for any losses, injuries, or consequential damage that may result from the use or reliance on any information contained in this form.

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