

**CHEM INTERNATIONAL****MATERIAL SAFETY DATA SHEET****EMERGENCY #: CANUTEC (613) 996-6666****PRODUCT IDENTIFICATION AND PREPARATION INFORMATION**

**PRODUCT NAME:** CI BATTERY CLEAN  
**WHMIS:** Class A; Class D - Div 2B  
**TDG:** CONSUMER COMMODITY · ORM-D  
**MATERIAL USE:** Battery cleaner.

**DATE PREPARED:** January 5, 2009**HAZARDOUS INGREDIENTS**

<b>CHEMICAL NAME</b>	<b>CAS#</b>	<b>%WT</b>	<b>TWA/TLV</b>	<b>LD50</b>	<b>LC50</b>
Ethylene Glycol Monobutyl Ether	111-76-2	01-05	50 ppm	220 mg/kg Oral Rat	500 ppm Rat 4hr
Liquified Petroleum Gas	68476-85-7	05-10	1000 ppm	N/D	N/D

**PHYSICAL DATA****DATA BELOW BASED ON AEROSOL CONCENTRATE ONLY:****BOILING POINT:** ~ 60 ° C**pH:** 10.5**SOLUBILITY IN WATER:** Complete**APPEARANCE/ODOR:** Orange Tinted Foam with Ammonia Odor**VAPOR DENSITY(AIR=1):** >1**SPECIFIC GRAVITY (H<sub>2</sub>O=1)@23° C:** 1.046**DATA BELOW BASED ON TOTAL CONTENTS:****VAPOR PRESSURE OF CAN (PSIG @20° C):** 55**TOTAL VOC %:** ~8%**FIRE AND EXPLOSION DATA****FLASH POINT (of Concentrate Only):** None to Boiling (~ 60°)C**FLAMMABILITY (as per Flame Projection Test):** Non-Flammable Spray**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, Dry Media**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Exposure to temperature above 50° C may cause bursting.**REACTIVITY DATA****STABILITY:** Material Stable.**HAZARDOUS POLYMERIZATION:** Will not Occur.**INCOMPATIBILITY:** Avoid contact with strong oxidizing agents.**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Dioxide, Carbon Monoxide**FIRST AID****EYES:** Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.**SKIN:** Wash with soap and water. If irritation persists seek medical attention.**INHALATION:** Remove to fresh air. Seek medical attention immediately. If breathing stops give artificial respiration.**INGESTION:** Do not induce vomiting. Seek medical attention immediately.

## TOXICOLOGICAL PROPERTIES

**ROUTE OF ENTRY:** Eyes contact ( ), Skin contact ( ), Skin absorption ( ), Inhalation ( ), Ingestion ( )

### EFFECTS OF ACUTE EXPOSURE:

**EYES:** May cause slight irritation but does not injure eye tissue.

**SKIN:** Frequent or prolonged contact may cause irritation.

**INHALATION:** Inhalation of mist can cause irritation of nasal and respiratory passages. Abusive or excessive inhalation may cause irritation to the upper respiratory tract, dizziness, nausea and other central nervous system effects.

**INGESTION:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis. Minimal toxicity.

### EFFECTS OF CHRONIC EXPOSURE:

**SKIN:** N/AV

**IRRITANCY:** N/AV

**SENSITIZATION:** N/AV

**CARCINOGENICITY:** Non Hazardous by WHMIS Criteria

**REPRODUCTIVE TOXIN:** N/D

**TERATOGENICITY:** N/D

**MUTAGENICITY:** N/D

**SYNERGISTIC MATERIALS:** N/D

**EXPOSURE LIMITS:** N/D

## PREVENTATIVE MEASURES

**RESPIRATORY PROTECTION:** None needed for proper use in accordance with label directions.

**VENTILATION:** Provide local exhaust to keep TLV of Section II ingredients below acceptable limits.

**PROTECTIVE GLOVES:** None needed for proper use in accordance with label directions. Use chemical resistant gloves if hand contact will be made.

**EYE PROTECTION:** None needed unless it is anticipated that a splash or spray back will occur, then wear safety glasses or chemical proof goggles.

**LEAK AND SPILL PROCEDURE:** Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, Provincial and local laws.

**WASTE DISPOSAL:** Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, Provincial and local authorities for approved procedures.

**STORAGE REQUIREMENTS:** Store in a cool, dry area away from heat or open flame.

Do not store at temperatures above 50° C.

**NFPA Code 30B Rating:** Level 1 Aerosol.

**HANDLING PROCEDURES: KEEP OUT OF REACH OF CHILDREN.** For Industrial and Institutional use only.

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	0	1	

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.

## CHEM INTERNATIONAL

18043 – 107 Avenue  
Edmonton, Alberta  
T5S 1K3  
1-800-665-7287