SAFETY DATA SHEET

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SECTION 01: PRODUCT AND COMPANY INFORMATION

MANUFACTURER/SUPPLIER LES INVESTISSEMENTS B.S.C. INC.

PRODUCT NAME CHLOROCLEAN

PRODUCT USE LIQUID COMMERICAL DISHWASHER DETERGENT

EMERGENCY PHONE NUMBER CANUTECH 613-996-6666

SECTION 02: HAZARDS IDENTIFICATION



ROUTE OF ENTRY:

SKIN CONTACT...... CORROSIVE. CONTACT WITH CONCENTRATED SOLUTIONS MAY

CAUSE SERIOUS BURNS TO HUMAN TISSUE. PROLONGED CONTACT MAY LEAD TO BURNS AND BLISTERS AND MAY AGGRAVATE

DERMATITIS. MAY CAUSE WHITENING OR BLEACHING OF THE SKIN.

SKIN ABSORPTION N.A.V

EYE CONTACT...... WILL CAUSE SEVERE TO PERMANENT INJURY.

INHALATION...... MIST MAY CAUSE INJURY TO ENTIRE RESPIRATORY TRACT.

CORROSIVE TO THE RESPIRATORY PASSAGE. CAUSES IRRITATION

OF THE MOUTH, NOSE AND THROAT. REPEATED AND/OR PROLONGED EXPOSURES MAY CAUSE PRODUCTIVE COUGH,

RUNNING NOSE, BRONCHOPNEUMONIA, PULMONARY EDEMA (FLUID BUILD-UP IN LUNGS) AND REDUCTION OF PULMONARY FUNCTION.

DAMAGES THROAT AREA AND GASTRO- RESPIRATORY TRACT.
CORROSIVE. CAUSES BURNS TO THE MOUTH, THROAT AND

STOMACH. CAUSES VOMITING, NAUSEA, AND DIARRHEA. COMA,

SHOCK AND DEATH MAY OCCUR.

EFFECTS/SYMPTOMS OF ACUTE EXPOSURE
EFFECTS/SYMPTOMS OF CHRONIC EXPOSURE

INGESTION

EFFECTS/SYMPTOMS OF CHRONIC EXPOSURE.
MEDICAL CONDITIONS GENERALLY

AGGRAVATED BY EXPOSURE.....

ALL HUMAN TISSUE DAMAGED ON CONTACT.

SEE ABOVE.

N.AV.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS HAZARDS IDENTIFICATION					
HAZARDOUS INGREDIENTS	C.A.S. #	%	TLV	LD50	LC50
POTASSIUM HYDROXIDE	1310-58-3	7 - 13	ACGIH, (C) 2 MG/M3.	N.AV.	N.AV.
SODIUM HYPOCHLORITE	7681-52-9	1 - 5	N.AV.	8200 MG/KG, (ORAL, RAT) >10000 MG/KG, (DERMAL, RABBIT)	N.AV.
P(AA/NAHSO3)NA SALT	68479-09-4	1 - 5	>5000 MG/KG (ORAL, RAT)	>5000 MG.KG (DERMAL, RABBIT)	N.AV.
TETRAPOTASSIUM PYROPHOSPHATE	7320-34-5	3-7	IN SOLUTION.	>1000 MG/KG, (ORAL, RABBIT) >4640 MG/KG, (DERMAL, RABBIT)	N.AV.

SECTION 04: FIRST AID MEASURES

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EYE CONTACT...... WASH EYES WITH WATER FOR A MINIMUM OF 30 MINUTES OR UNTIL

NO EVIDENCE OF THE CHEMICAL REMAINS. HOLD EYELIDS OPEN DURING FLUSHING. SEEK IMMEDIATE MEDICAL ATTENTION.

IMMEDIATE MEDICAL ATTENTION.

INGESTION RINSE MOUTH WITH WATER. DRINK PLENTY OF WATER OR

FRUIT JUICE. DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. SEEK IMMEDIATE

MEDICAL ATTENTION.

MATERIAL, SWALLOWING MAY LEAD TO ULCERATION AND INFLAMMATION OF THE UPPER ALIMENTARY TRACT WITH HEMORRHAGE AND FLUID LOSS. ALSO, PERFORATION OF THE ESOPHAGUS OR STOMACH MAY OCCUR, LEADING TO MEDIASTINITIS OR PERITONITIS AND THE RESULTANT COMPLICATIONS.

SECTION 05: FIRE FIGHTING MEASURES

CONDITIONS OF FLAMMABILITY.......NON-FLAMMABLE.

MEANS OF EXTINCTION/EXTINGUISHING MEDIA: .. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

SPECIAL FIRE FIGHTING PROCEDURES...... FIREFIGHTERS SHOULD WEAR NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE

CLOTHING.

UNUSUAL FIRE AND EXPLOSION HAZARDS...... KEEP CONTAINERS COOL TO PREVENT RUPTURE AND RELEASE OF

MATERIAL. CLOSED CONTAINERS MAY EXPLODE IN FIRE. THIS MATERIAL IS CORROSIVE TO ALL HUMAN TISSUE. IT WILL REACT VIOLENTLY HAZARDS WITH MANY ORGANIC CHEMICALS, ESPECIALLY NITROCARBONS AND CHLOROCARBONS. CAUSTIC POTASH REACTS WITH ZINC, ALUMINUM, TIN, AND OTHER ACTIVE METALS LIBERATING FLAMMABLE HYDROGEN GAS. DILUTION WITH WATER EVOLVES

LARGE AMOUNT OF HEAT.

HAZARDOUS COMBUSTION PRODUCTS CHLORINE. OXYGEN. OXIDES OF SODIUM.

SECTION 06: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES PROTECTIVE CLOTHING AND EQUIPMENT MUST BE WORN BY CLEAN-

UP PERSONNEL. CONTAIN SPILLAGE OR LEAK IN SUITABLE CONTAINER OR CONTAIN IN A HOLDING AREA. DO NOT ALLOW DRAINAGE TO SEWERS, STREAMS OR STORM CONDUITS. RECOVER WITH VACUUM EQUIPMENT SUCH AS A SEPTIC TANK TRUCK OR NEUTRALIZE WITH DILUTED (WEAK) ACID SOLUTIONS AND FLUSH WITH WATER. AVOID SPLASHING OR MISTING WHICH COULD INCREASE HEALTH HAZARDS. NOTE: PLANNING AHEAD IS ESSENTIAL FOR HANDLING SPILLS. PROPER EQUIPMENT AND TRAINED EMPLOYEES SHOULD BE READILY AVAILABLE TO CORRECT A SPILL

SITUATUATION.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT.....

FOR INDUSTRIAL USE ONLY. HANDLE AND OPEN CONTAINERS WITH CARE. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT INGEST. AVOID INHALATION OF CHEMICAL. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS PRODUCT RESIDUES. KEEP THE CONTAINERS CLOSED WHEN NOT IN USE. PROTECT AGAINST PHYSICAL DAMAGE. USE APPROPRIATE PERSONNEL PROTECTIVE EQUIPMENT. WHEN

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STORAGE REQUIREMENTS.....

DILUTING, ADD THIS PRODUCT TO WATER IN SMALL AMOUNTS TO AVOID SPATTERING. NEVER ADD WATER TO THIS MATERIAL. STORE IN A COOL, DRY, WELL-VENTILATED AREA, AWAY FROM HEAT AND IGNITION SOURCES. KEEP AWAY FROM DIRECT SUNLIGHT. STORE AWAY FROM ORGANIC CHEMICALS, METAL POWDERS, CARBIDES, SULFIDES, AND ANY READILY OXIDIZABLE MATERIAL.

SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

GENERALLY OR LOCALLY). VENTILATION REQUIRED WHEN SPRAYING OR APPLYING IN A CONFINED AREA. VENTILATION SHOULD BE EXPLOSION PROOF. ELIMINATE IGNITION SOURCES.

PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION IMPERVIOUS GLOVES. NEOPRENE GLOVES. NITRILE GLOVES.

RUBBER GLOVES. NEOPRENE COATED APRON OR CHEMICAL

CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD TO PROTECT EYES AND FACE, IF PRODUCT IS HANDLED SUCH THAT IT

COULD BE SPLASHED INTO EYES.

RESPIRATORY PROTECTION WEAR A NIOSH APPROVED FULL FACEPIECE RESPIRATOR FOR ACID

GASES OR A SELF-CONTAINED BREATHING APPARATUS FOR AIR CONCENTRATION LEVELS UP TO 5 PPM. NIOSH APPROVED SUPPLIED AIR RESPIRATOR WHEN AIRBORNE CONCENTRATIONS EXCEED

EXPOSURE LIMITS.

WORK/HYGIENE PRACTICES ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE

PROXIMAL TO THE WORK-STATION LOCATION.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE LIQUID.

APPEARANCE & ODOUR CLEAR COLOUR - CHLORINE ODOUR

 ODOUR THRESHOLD
 N.AV.

 SPECIFIC GRAVITY
 1.204

 VAPOUR PRESSURE (MMHG)
 N.AV.

 VAPOUR DENSITY (AIR=1)
 N.AV.

 EVAPORATION RATE
 N.AV.

 BOILING POINT
 93°C

 FREEZING/MELTING POINT
 -12°C

 PH
 14

SOLUBILITY IN WATER (% W/W)...... SOLUBLE.

COEFFICIENT OF WATER/OIL DISTRIBUTION N.AV.

SECTION 10: STABILITY AND REACTIVITY

STABLE UNDER NORMAL OPERATING CONDITIONS.

ORGANICS CHEMICALS, HYDROCARBONS, HALOCARBONS.

ALUMINUM ALLOYS. COPPER. COPPER ALLOYS. NICKEL.

HAZARDOUS DECOMPOSITION PRODUCT............... CHLORINE. OXYGEN. OXIDES OF SODIUM. OXIDES OF POTASSIUM,

OXIDES OF PHOSPHORUS. THERMAL DECOMPOSITION MAY YIELD

ACRYLIC MONOMERS.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

SECTION 11: TOXICOLOGICAL INFORMATION

SENSITIZATION TO PRODUCT...... N.AV.

PRODUCT: CHLOROCLEAN Page 4 CARCINOGENICITY..... SODIUM HYPOCHLORITE SOLUTIONS ARE IARC GROUP 3 CARCINOGENS. REPRODUCTIVE TOXICITY N.AV. TERATOGENICITY..... N.AV. MUTAGENICITY N.AV. TOXICOLOGICAL SYNERGISTIC PRODUCTS...... N.AV. CHRONIC TOXICITY N.AV. **SECTION 12: ECOLOGICAL INFORMATION ECOLOGICAL INFORMATION** N.AV. **SECTION 13: DISPOSAL CONSIDERATIONS** WASTE DISPOSAL..... IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS. **SECTION 14: TRANSPORT INFORMATION** PROPER SHIPPING NAME..... CORROSINE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE) TDG CLASSIFICATION UN NUMBER 1760 PACKGING GROUP **SECTION 15: REGULATORY INFORMATION** WHMIS CLASSIFICATION CPR COMPLIANCE THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR. **SECTION 16: OTHER INFORMATION**

PREPARATION DATE: JULY 1, 2016

N.AV. = NOT AVAILABLE N.AP. = NOT APPLICABLE