

SAFETY DATA SHEET

PRODUCT: VINEGAR

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SECTION 01: PRODUCT AND COMPANY INFORMATION

MANUFACTURER/SUPPLIER LES INVESTISSEMENTS B.S.C. INC.
MANUFACTURER'S/SUPPLIERS ADDRESS..... 109 IBER RD., UNIT #3, OTTAWA, ON K2S 0X5 613-744-8896
PRODUCT NAME VINEGAR
PRODUCT USE NEUTRALIZING VINEGAR – **NOT FOR HUMAN CONSUMPTION**
EMERGENCY PHONE NUMBER..... CANUTECH (613) 996-6666

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS HAZARDS IDENTIFICATION

ROUTE OF ENTRY:



SKIN CONTACT CORROSIVE. CAUSES REDNESS, PAIN, SERIOUS SKIN BURNS. CONTACT WITH ABRADED SKIN OR CUTS CAN CAUSE NECROSIS OF TISSUES.

SKIN ABSORPTION PRODUCT IS ABSORBED THROUGH THE SKIN AND MAY CAUSE MALAISE, DISCOMFORT, INJURY AND DEATH UNLESS TREATED PROMPTLY.

EYE CONTACT..... CORROSIVE. CONTACT OF LIQUID WILL CAUSE SEVERE BURNS. MAY RESULT IN PERMANENT IMPAIRMENT OF VISION, EVEN BLINDNESS. CAUSES CORNEAL DAMAGE.

INHALATION..... SEVERE RESPIRATORY IRRITATION. INHALATION OF HIGH CONCENTRATIONS CAN BE SEVERELY IRRITATING TO THE LUNG WITH POTENTIAL SYSTEMIC ABSORPTION AND TISSUE DAMAGE.

INGESTION CORROSIVE.

EFFECTS/SYMPTOMS OF ACUTE EXPOSURE SEE ABOVE.

EFFECTS/SYMPTOMS OF CHRONIC EXPOSURE CHRONIC RESPIRATORY DISEASE, EG. BRONCHITIS, EMPHYSEMA. PROLONGED OR REPEATED EYE CONTACT MAY CAUSE CONJUNCTIVITIS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE..... MEDICAL CONDITIONS AGGRAVATED BY PREEXISTING RESPIRATORY DISEASE INCLUDING ASTHMA AND EMPHYSEMA. OVEREXPOSURE EYE DISEASE. SKIN DISORDERS AND ALLERGIES.

SECTION 03: HAZARDS IDENTIFICATION

| HAZARDOUS INGREDIENTS | C.A.S. # | % | TLV | LD50 | LC50 |
|-----------------------|----------|------|----------------|----------------|----------------|
| ACETIC ACID | 64-19-7 | 5-10 | SEE SECTION 11 | SEE SECTION 11 | SEE SECTION 11 |

SECTION 04: FIRST AID MEASURES

SKIN CONTACT FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING. EXCEPT IN THE MOST MINOR, SUPERFICIAL, AND LOCALIZED BURNS, COVER THE AFFECTED AREA WITH A STERILE DRESSING OR CLEAN SHEETING AND TRANSPORT FOR MEDICAL CARE. DO NOT APPLY GREASES OR OINTMENTS. GET MEDICAL ATTENTION WITHOUT DELAY. CONTROL SHOCK, IF PRESENT. WASH CLOTHING AND DECONTAMINATE SHOES BEFORE REUSE.

EYE CONTACT..... FLUSH EYES WITH LARGE AMOUNTS OF RUNNING WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYE AND LIDS WITH WATER. GET MEDICAL ATTENTION WITHOUT DELAY.

INHALATION..... REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, START ARTIFICIAL RESPIRATION AT ONCE. IF VOMITING OCCURS KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. SEEK MEDICAL ATTENTION.

INGESTION GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO A CONVULSING OR UNCONSCIOUS PERSON. DRINK PLENTY OF WATER.

NOTES TO PHYSICIAN..... CHEMICAL PNEUMONITIS, PULMONARY EDEMA, LARYNGEAL EDEMA, AND DELAYED SCARRING OF THE AIRWAY OR OTHER AFFECTED

ORGANS MAY OCCUR FOLLOWING EXPOSURE. BURNS SHOULD BE TREATED AS THERMAL BURNS. THIS PRODUCT IS HIGHLY INJURIOUS TO ALL TISSUES, SIMILAR TO THAT OF AMMONIA OR AMMONIA GAS.

SECTION 05: FIRE FIGHTING MEASURES

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| CONDITIONS OF FLAMMABILITY | EXCESSIVE HEAT, SPARKS AND OPEN FLAME. |
| MEANS OF EXTINCTION/EXTINGUISHING MEDIA: .. | CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM, WATER FOG. OTHER CLASS B EXTINGUISHING AGENTS. |
| FLASH POINT..... | NONE. |
| UPPER FLAMMABLE LIMIT (% BY VOLUME)..... | N.AV. |
| LOWER FLAMMABLE LIMIT (% BY VOLUME)..... | N.AV. |
| AUTO-IGNITION TEMPERATURE | N.AV. |
| SPECIAL FIRE FIGHTING PROCEDURES..... | USE WATER-SPRAY TO KEEP CONTAINERS COOL. WEAR FULL PROTECTIVE CLOTHING (RUBBER SUIT AND BOOTS) INCLUDING CHEMICAL SPLASH GOGGLES OR HOOD AND SELF-CONTAINED BREATHING APPARATUS. |
| UNUSUAL FIRE AND EXPLOSION HAZARDS..... | EXPLOSIVE MIXTURES CAN FORM WITH AIR. VAPOURS MAY SETTLE IN LOW OR HAZARDS CONFINED AREAS, OR TRAVEL A LONG DISTANCE TO AN IGNITION SOURCE AND FLASH BACK EXPLOSIVELY. HAZARDOUS DECOMPOSITION PRODUCTS GENERATED UNDER FIRE CONDITIONS. |
| EXPLOSION DATA..... | N.AV. |
| SENSITIVITY TO MECHANICAL IMPACT | N.AV. |
| SENSITIVITY TO STATIC DISCHARGE | N.AV. |
| HAZARDOUS COMBUSTION PRODUCTS | CARBON DIOXIDE. CARBON MONOXIDE. OTHER TOXIC VAPOURS. |

SECTION 06: ACCIDENTAL RELEASE MEASURES

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| ACCIDENTAL RELEASE MEASURES..... | DIKE AREA TO PREVENT SPREADING. WEAR NIOSH/MSHA APPROVED RESPIRATOR (SELF-CONTAINED BREATHING APPARATUS PREFERRED) AND APPROPRIATE PROTECTIVE EQUIPMENT. OPEN WINDOWS OR PROVIDE FORCED VENTILATION. CAUTIOUSLY SPRAY RESIDUE WITH PLENTY OF WATER. |
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SECTION 07: HANDLING AND STORAGE

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| HANDLING PROCEDURES AND EQUIPMENT..... | AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID BREATHING VAPOURS. AVOID INGESTION. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. KEEP CONTAINERS CLOSED OR SEALED. EMPTY CONTAINERS ARE HAZARDOUS, MAY CONTAIN FLAMMABLE/EXPLOSIVE DUSTS, LIQUID RESIDUE OR VAPOURS. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED. USE ADEQUATE VENTILATION. MAINTAIN A GOOD PERSONAL HYGIENE. WASH THOROUGHLY AFTER HANDLING. |
| STORAGE REQUIREMENTS..... | KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. CONTAINERS SHOULD BE STORED IN A COOL, DRY, WELL VENTILATED AREA. KEEP THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE AWAY FROM INCOMPATIBLE MATERIALS. STORE IN STEEL CONTAINERS. RINSE EMPTY CONTAINERS THOROUGHLY WITH CLEAN WATER BEFORE DISCARDING. |

SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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| ENGINEERING CONTROL..... | LOCAL EXHAUST AND GENERAL ROOM VENTILATION ARE REQUIRED TO MEET EXPOSURE STANDARDS. SUPPLEMENTARY LOCAL EXHAUST VENTILATION, CLOSED SYSTEMS, OR RESPIRATORY PROTECTION MAY BE NEEDED IN SPECIAL CIRCUMSTANCES SUCH AS POORLY VENTILATED SPACES, MECHANICAL GENERATION OF DUSTS, HEATING, DRYING, ETC. |
| PERSONAL PROTECTIVE EQUIPMENT: | |
| SKIN PROTECTION | NEOPRENE OR RUBBER GLOVES. RUBBER SAFETY BOOTS. SLICKER SUIT. |
| EYE/FACE PROTECTION..... | SPLASH PROOF CHEMICAL GOGGLES. FACE SHIELD. |
| RESPIRATORY PROTECTION | A RESPIRATOR SHOULD BE WORN IF NEEDED AND MUST BE WORN IF EXPOSURE IS LIKELY TO EXCEED RECOMMENDED EXPOSURE |

WORK/HYGIENE PRACTICES LIMITS (WHEN AVAILABLE). AN APPROVED SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN. RESPIRATOR TYPE: ORGANIC VAPOUR.
 EYE BATH AND SAFETY SHOWER.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE LIQUID.
 APPEARANCE & ODOUR CLEAR. VINEGAR.
 ODOUR THRESHOLD >0.21 PPM FOR 100% ACETIC ACID.
 SPECIFIC GRAVITY ~ 1.004
 VAPOUR PRESSURE (MMHG)..... N.AV.
 VAPOUR DENSITY (AIR=1)..... N.AV.
 EVAPORATION RATE..... N.AV.
 BOILING POINT..... N.AV.
 FREEZING/MELTING POINT N.AV.
 PH N.AV.
 SOLUBILITY IN WATER (% W/W)..... COMPLETE.
 COEFFICIENT OF WATER/OIL DISTRIBUTION N.AV.

SECTION 10: STABILITY AND REACTIVITY

STABILITY STABLE AT AMBIENT TEMPERATURES.
 CONDITIONS TO AVOID..... AVOID EXCESSIVE HEAT, DIRECT CONTACT WITH OPEN FLAME. CONTACT WITH INCOMPATIBLES.
 INCOMPATIBILITY (MATERIALS TO AVOID)..... ALKALIES. REDUCING MATERIALS. SODIUM HYPOCHLORITES. AMINES.
 HAZARDOUS DECOMPOSITION PRODUCT..... CARBON DIOXIDE. CARBON MONOXIDE. ACID MIST OR VAPOUR.
 HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMITS..... ACETIC ACID: ACGIH TWA: 10 PPM; ACGIH STEL: 15 PPM; OSHA PEL: 10 PPM, 25 MG/M3; OSHA TWA: 10 PPM, 25 MG/M3.
 IRRITANCY OF MATERIAL SEE SECTION 2
 LC50..... ACETIC ACID: >5620 PPM/1 HR RAT.
 LD50..... ACETIC ACID: ORAL LD50 (RAT): 3310 - 3530 MG/KG; ORAL LD50 (MOUSE): 4960 MG/KG; DERMAL LD50 (RABBIT): 1060 MG/KG.
 SENSITIZATION TO PRODUCT N.AV.
 CARCINOGENICITY..... NONE.
 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 THIS MATERIAL IS A STRONGLY ACIDIC AQUEOUS SOLUTION, AND THIS PROPERTY MAY CAUSE ADVERSE ENVIRONMENTAL EFFECTS.
 ACETIC ACID: OXYGEN DEMAND DATA: BOD-5: 340 - 880 MG/G FOR 100% ACETIC ACID.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL..... IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

PROPER SHIPPING NAME..... N. AP.
 TDG CLASSIFICATION NOT REGULATED
 UN NUMBER N. AP.
 PACKGING GROUP N. AP.

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION D2B
CPR COMPLIANCE THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE
HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS
REGULATIONS (CPR) AND THE SDS CONTAINS ALL THE
INFORMATION REQUIRED BY THE CPR.

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION

PREPARED BY: REGULATORY AFFAIRS, TELEPHONE - (613)-744-8896
PREPARATION DATE: JUNE 1, 2016

N.A.V. = NOT AVAILABLE
N.A.P. = NOT APPLICABLE