

SAFETY DATA SHEET

PRODUCT: KRYSTAL KLEAR

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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 KRYSTAL KLEAR
PRODUCT USE SILICONE TIRE CLEANER
EMERGENCY PHONE NUMBER..... CANUTECH 613-996-6666

SECTION 02: HAZARDS IDENTIFICATION



ROUTE OF ENTRY:
SKIN CONTACT MAY CAUSE MODERATE SKIN IRRITATION.
SKIN ABSORPTION N.AV.
EYE CONTACT..... VAPOURS MAY BE IRRITATING TO THE EYE. MAY BE IRRITATING TO THE EYES.
INHALATION..... VAPOURS ARE MODERATELY IRRITATING TO RESPIRATORY PASSAGES.
INGESTION INGESTION OF THIS PRODUCT MAY CAUSE HEADACHE, DIZZINESS, FATIGUE AND CENTRAL NERVOUS SYSTEM DEPRESSION.
EFFECTS/SYMPTOMS OF ACUTE EXPOSURE EXPOSURE MAY OCCUR VIA INHALATION, INGESTION, SKIN ABSORPTION AND SKIN OR EYE CONTACT. RESPIRATORY IRRITATION SIGNS AND SYMPTOMS MAY INCLUDE A TEMPORARY BURNING SENSATION OF THE NOSE AND THROAT, COUGHING, AND/OR DIFFICULTY BREATHING. SKIN IRRITATION SIGNS AND SYMPTOMS MAY INCLUDE A BURNING SENSATION, REDNESS, SWELLING, AND/OR BLISTERS. EYE IRRITATION SIGNS AND SYMPTOMS MAY INCLUDE A BURNING SENSATION, REDNESS, SWELLING, AND/OR BLURRED VISION. IF MATERIAL ENTERS LUNGS, SIGNS AND SYMPTOMS MAY INCLUDE COUGHING, CHOKING, WHEEZING, DIFFICULTY IN BREATHING, CHEST CONGESTION, SHORTNESS OF BREATH, AND/OR FEVER.
EFFECTS/SYMPTOMS OF CHRONIC EXPOSURE PROLONGED AND REPEATED CONTACT WITH SKIN CAN CAUSE DEFATTING AND DRYING OF THE SKIN RESULTING IN SKIN IRRITATION AND DERMATITIS. PROLONGED EXPOSURE TO HIGH VAPOUR CONCENTRATION CAN CAUSE HEADACHE, DIZZINESS, NAUSEA, BLURED VISION AND CENTRAL NERVOUS SYSTEM DEPRESSION.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE..... PREEXISTING EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS HAZARDS IDENTIFICATION

HAZARDOUS INGREDIENTS	C.A.S. #	%	TLV	LD50	LC50
NAPHTHA (PETROLEUM), HEAVY ALKYLATE	64741-65-7	65 - 70	SEE SECTION 11	N.AV.	N.AV.

SECTION 04: FIRST AID MEASURES

SKIN CONTACT FLUSH AFFECTED SKIN WITH GENTLY FLOWING LUKEWARM WATER FOR AT LEAST 20 MINUTES AND REMOVE CONTAMINATED CLOTHING WHILE RINSING. WASH CONTAMINATED SKIN WITH MILD SOAP AND WATER FOR 15 MINUTES. IF IRRITATION OCCURS AND PERSISTS, OBTAIN MEDICAL ATTENTION.
EYE CONTACT..... FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. OBTAIN MEDICAL ATTENTION AS SOON AS POSSIBLE AFTER FIRST AID HAS BEEN INITIATED AND COMPLETED.
INHALATION..... REMOVE VICTIM FROM FURTHER EXPOSURE AND RESTORE BREATHING, IF REQUIRED. OBTAIN MEDICAL ATTENTION.
INGESTION DO NOT INDUCE VOMITING. GUARD AGAINST ASPIRATION INTO LUNGS BY HAVING THE INDIVIDUAL TURN ON TO THEIR LEFT SIDE. IF

NOTES TO PHYSICIAN..... VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

THE MAIN HAZARD FOLLOWING ACCIDENTAL INGESTION IS ASPIRATION OF THE LIQUID INTO THE LUNGS PRODUCING CHEMICAL PNEUMONITIS. IF MORE THAN 2.0 ML/KG (NAPHTHA (PETROLEUM), HEAVY ALKYLATE) HAS BEEN INGESTED, VOMITING SHOULD BE INDUCED WITH SUPERVISION. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE VOMITING, GASTRIC LAVAGE WITH A CUFFED ENDOTRACHEAL TUBE SHOULD BE CONSIDERED.

SECTION 05: FIRE FIGHTING MEASURES

CONDITIONS OF FLAMMABILITY SEE FLASH POINT.

MEANS OF EXTINCTION/EXTINGUISHING MEDIA: .. DRY CHEMICAL, CARBON DIOXIDE, FOAM, WATER FOG. WATER SPRAY. DO NOT USE WATER IN A JET.

FLASH POINT >51 (C)

UPPER FLAMMABLE LIMIT (% BY VOLUME)..... N.AV.

LOWER FLAMMABLE LIMIT (% BY VOLUME)..... N.AV.

AUTO-IGNITION TEMPERATURE N.AV.

SPECIAL FIRE FIGHTING PROCEDURES..... VAPOURS FORM A FLAMMABLE/EXPLOSIVE MIXTURE WITH AIR BETWEEN UPPER AND LOWER FLAMMABLE LIMITS. DO NOT ENTER CONFINED FIRE SPACE WITHOUT ADEQUATE PROTECTIVE CLOTHING AND AN APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. EXCLUDE AIR. PRODUCT WILL FLOAT AND CAN BE REIGNITED ON SURFACE OF WATER. CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOUR PRESSURE BUILD UP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE. CAUTION-COMBUSTIBLE.

UNUSUAL FIRE AND EXPLOSION HAZARDS..... N.AV.

EXPLOSION DATA N.AV.

SENSITIVITY TO MECHANICAL IMPACT N.AV.

SENSITIVITY TO STATIC DISCHARGE N.AV.

HAZARDOUS COMBUSTION PRODUCTS CARBON MONOXIDE AND CARBON DIOXIDE ARE PRODUCED ON COMBUSTION.

SECTION 06: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES..... ISSUE WARNING "COMBUSTIBLE". ELIMINATE ALL SOURCES OF IGNITION. HANDLING EQUIPMENT MUST BE GROUNDED. ISOLATE HAZARD AREA AND RESTRICT ACCESS. TRY TO WORK UP WIND OF SPILL. AVOID DIRECT CONTACT WITH MATERIAL. WEAR APPROPRIATE BREATHING APPARATUS (IF APPLICABLE) AND PROTECTIVE CLOTHING. STOP LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN LAND SPILLS; CONTAIN WATER SPILLS BY BOOMING. FOR LARGE SPILLS REMOVE BY MECHANICAL MEANS AND PLACE IN CONTAINERS. ABSORB RESIDUE OR SMALL SPILLS WITH ABSORBENT MATERIAL AND REMOVE TO NON-LEAKING CONTAINERS FOR DISPOSAL. RECOMMENDED MATERIALS: CLAY OR SAND. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE. DISPOSE OF RECOVERED MATERIAL AS NOTED UNDER DISPOSAL CONSIDERATIONS.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT..... COMBUSTIBLE. HOT SURFACES MAY BE SUFFICIENT TO IGNITE LIQUID EVEN IN EQUIPMENT THE ABSENCE OF SPARKS OR FLAMES. EXTINGUISH PILOT LIGHTS, CIGARETTES

AND TURN OFF OTHER SOURCES OF IGNITION PRIOR TO USE AND UNTIL ALL VAPOURS ARE GONE. VAPOURS MAY ACCUMULATE AND TRAVEL TO DISTANT IGNITION SOURCES AND FLASHBACK. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS PRODUCT RESIDUES. FIXED EQUIPMENT AS WELL AS TRANSFER CONTAINERS AND EQUIPMENT SHOULD BE GROUNDED TO PREVENT ACCUMULATION OF STATIC CHARGE. DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS. AVOID BREATHING VAPORS AND PROLONGED OR REPEATED CONTACT WITH SKIN. AIR-DRY CONTAMINATED CLOTHING IN A WELL VENTILATED AREA BEFORE LAUNDERING. WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING. LAUNDER CONTAMINATED CLOTHING PRIOR TO REUSE. USE GOOD PERSONAL HYGIENE. DO NOT PRESSURIZE DRUM CONTAINERS TO EMPTY THEM.

STORE IN A COOL, DRY, WELL VENTILATED AREA, AWAY FROM HEAT AND IGNITION SOURCES. USE EXPLOSION PROOF VENTILATION TO PREVENT VAPOUR ACCUMULATION. KEEP CONTAINER TIGHTLY CLOSED.

STORAGE REQUIREMENTS.....

SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROL..... MAKE UP AIR SHOULD ALWAYS BE SUPPLIED TO BALANCE AIR EXHAUSTED (EITHER GENERALLY OR LOCALLY). ELECTRICAL AND MECHANICAL EQUIPMENT SHOULD BE EXPLOSION-PROOF. CONCENTRATIONS IN AIR SHOULD BE MAINTAINED BELOW THE RECOMMENDED THRESHOLD LIMIT VALUE IF UNPROTECTED PERSONNEL ARE INVOLVED. FOR PERSONNEL ENTRY INTO CONFINED SPACES (I.E. BULK STORAGE TANKS) A PROPER CONFINED SPACE ENTRY PROCEDURE MUST BE FOLLOWED INCLUDING VENTILATION AND TESTING OF TANK ATMOSPHERE. LOCAL VENTILATION RECOMMENDED WHERE MECHANICAL VENTILATION IS INEFFECTIVE IN CONTROLLING AIRBORNE CONCENTRATIONS BELOW THE RECOMMENDED OCCUPATIONAL EXPOSURE LIMIT. MECHANICAL VENTILATION IS RECOMMENDED FOR ALL INDOOR SITUATIONS TO CONTROL FUGITIVE EMISSIONS.

PERSONAL PROTECTIVE EQUIPMENT:

SKIN PROTECTION IMPERVIOUS GLOVES (VITON, NITRILE) SHOULD BE WORN AT ALL TIMES WHEN HANDLING THIS MATERIAL. IN CONFINED SPACES OR WHERE THE RISK OF SKIN EXPOSURE IS MUCH HIGHER, IMPERVIOUS CLOTHING SHOULD BE WORN.

EYE/FACE PROTECTION 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 IF EXPOSURE EXCEEDS OCCUPATIONAL EXPOSURE LIMITS, USE AN APPROPRIATE NIOSH-APPROVED RESPIRATOR. USE A NIOSH-APPROVED CHEMICAL CARTRIDGE RESPIRATOR WITH ORGANIC VAPOUR CARTRIDGES OR USE A NIOSH-APPROVED SUPPLIED-AIR RESPIRATOR. FOR HIGH AIRBORNE CONCENTRATIONS, USE A NIOSH-APPROVED SUPPLIED-AIR RESPIRATOR, EITHER SELF-CONTAINED OR AIRLINE BREATHING APPARATUS, OPERATED IN POSITIVE PRESSURE MODE.

WORK/HYGIENE PRACTICES PROVIDE AN EYEWASH STATION IN THE AREA. SAFETY SHOWERS SHOULD BE AVAILABLE FOR EMERGENCY USE.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE LIQUID

APPEARANCE & ODOUR CLEAR – WATERMELON SCENT

ODOUR THRESHOLD N.AV.

SPECIFIC GRAVITY N.AV.

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)..... SOLUBLE.
 COEFFICIENT OF WATER/OIL DISTRIBUTION N.AV.

SECTION 10: STABILITY AND REACTIVITY

STABILITY STABLE UNDER NORMAL OPERATING CONDITIONS.
 CONDITIONS TO AVOID..... AVOID EXCESSIVE HEAT, OPEN FLAMES AND ALL IGNITION SOURCES.
 INCOMPATIBILITY (MATERIALS TO AVOID)..... STRONG OXIDIZING AGENTS.
 HAZARDOUS DECOMPOSITION PRODUCT..... SEE HAZARDOUS COMBUSTION PRODUCTS.
 HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMITS..... NAPHTHA (PETROLEUM), HEAVY ALKYLATE: NORTH AMERICAN EXPOSURE LIMITS HAVE NOT BEEN ESTABLISHED FOR PRODUCT. MANUFACTURER RECOMMENDED VALUE USING THE RECIPROCAL CALCULATOR PROCEDURE DEVELOPED BY THE SOLVENT INDUSTRY IS: 192 PPM, 1200 MG/M3 (8 HOUR TWA).
 LD50..... NAPHTHA (PETROLEUM), HEAVY ALKYLATE: >7600 MG/KG, RAT, ORAL; >3040 MG/KG, RAT, DERMAL.
 LC50..... NAPHTHA (PETROLEUM), HEAVY ALKYLATE: INHALATION RAT >5900 MG/L FOR 4 HOURS.
 IRRITANCY OF MATERIAL SEE SECTION 2.
 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 N.AV.

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

PROPER SHIPPING NAME..... NOT REGULATED IF <450 L.
 TDG CLASSIFICATION NOT REGULATED IF <450 L.
 UN NUMBER NOT REGULATED IF <450 L.
 PACKGING GROUP NOT REGULATED IF <450 L.

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION B3
 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 INFORMATION PREPARED BY: REGULATORY AFFAIRS, TELEPHONE - (613)-744-8896
 PREPARATION DATE: JULY 1, 2016

N.AV. = NOT AVAILABLE

N.AP. = NOT APPLICABLE