

PRODUCT: LOCK DE- ICER

STOCK: 615

**SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

MANUFACTURER..... KLEEN-FLO TUMBLER INDUSTRIES LTD.  
 75 ADVANCE BLVD.  
 BRAMPTON, ONTARIO CANADA  
 L6T 4N1  
 Tel # 905-793-4311

PRODUCT NAME..... LOCK DE- ICER  
 PRODUCT CODE..... 615  
 MATERIAL USE..... DE ICER.  
 EMERGENCY PHONE NO..... CANUTEC: 613-996-6666

**Guidelines for SDS use:** The product described in this SDS is a consumer product. It is safe for use by consumers as described on the product label under normal, foreseeable conditions. This SDS is designed to provide additional valuable safety and handling information.

**SECTION 02: HAZARDS IDENTIFICATION**

SIGNAL WORD..... DANGER.  
 HAZARD CLASSIFICATION..... FLAMMABLE LIQUIDS — CATEGORY 2. SKIN IRRITATION (CATEGORY 3). EYE IRRITATION — CATEGORY 2A. SPECIFIC TARGET ORGAN TOXICITY — SINGLE EXPOSURE — CATEGORY 3. ASPIRATION HAZARD – CATEGORY 1  
 HAZARD STATEMENT..... H225 HIGHLY FLAMMABLE LIQUID AND VAPOUR. H316 CAUSES MILD SKIN IRRITATION. H319 CAUSES SERIOUS EYE IRRITATION. H336 MAY CAUSE DROWSINESS OR DIZZINESS. H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.  
 PRECAUTIONARY STATEMENT..... P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES AND OTHER IGNITION SOURCES – NO SMOKING... P233 KEEP CONTAINER TIGHTLY CLOSED. P240 GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT. P241 USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING/.../ EQUIPMENT. P242 USE ONLY NON-SPARKING TOOLS. P243 TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. P261 AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P264 WASH... THOROUGHLY AFTER HANDLING. P271 USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P303+P361+P353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. P301+P310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER/DOCTOR. P331 DO NOT INDUCE VOMITING. P304+P340 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P312 CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL. P337+P313 IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION. P370+P378 IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR ALCOHOL RESISTANT FOAM FOR EXTINCTION. P403+P235 STORE IN A WELL-VENTILATED PLACE. KEEP COOL. P405 STORE LOCKED UP. P501 DISPOSE OF CONTENTS/CONTAINER ACCORDING TO ALL APPLICABLE REGULATIONS.  
 OTHER HAZARDS..... VAPOURS CAN ACCUMULATE IN LOW AREAS. MAY FORM EXPLOSIVE PEROXIDES.

**SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS	CAS #	WT. %
ISOPROPYL ALCOHOL	67-63-0	80-100
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED	64742-53-6	5-20
LIGHT NAPHTHENIC		

**SECTION 04: FIRST AID MEASURES**

GENERAL ADVICE:..... CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE. MOVE OUT OF DANGEROUS AREA.  
 IF INHALED:..... IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.

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**SECTION 04: FIRST AID MEASURES**

IN CASE OF SKIN CONTACT:..... WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.  
 IN CASE OF EYE CONTACT:..... WASH EYES WITH COPIOUS AMOUNT OF WATER.  
 IF SWALLOWED:..... DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.

**SECTION 05: FIRE FIGHTING MEASURES**

FLAMMABILITY..... FLAMMABLE IN THE PRESENCE OF A SOURCE OF IGNITION WHEN THE TEMPERATURE IS ABOVE THE FLASH POINT. KEEP AWAY FROM HEAT/SPARK/OPEN FLAME/HOT SURFACE. NO SMOKING.  
 EXTINGUISHING MEDIA..... SUITABLE FOR SURROUNDING FIRE. CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM, WATER FOG.  
 HAZARDOUS COMBUSTION PRODUCTS. CARBON OXIDES.  
 UNUSUAL FIRE AND EXPLOSION ..... NO DATA AVAILABLE.  
 HAZARDS  
 SPECIAL PROCEDURES..... EVACUATE HAZARD AREA. WEAR FULL PROTECTIVE EQUIPMENT INCLUDING A SELF-CONTAINED BREATHING APPARATUS.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS:..... USE PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPORS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. REMOVE ALL SOURCES OF IGNITION. EVACUATE PERSONNEL TO SAFE AREAS. BEWARE OF VAPOURS ACCUMULATING TO FORM EXPLOSIVE CONCENTRATIONS. VAPOURS CAN ACCUMULATE IN LOW AREAS.  
 ENVIRONMENTAL PRECAUTIONS:..... PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.  
 METHODS AND MATERIALS FOR ..... CONTAIN SPILLAGE AND THEN COLLECT WITH ELECTRICALLY PROTECTED CONTAINMENT AND CLEAN UP: VACUUM CLEANER OR BY WET-BRUSHING AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS.

**SECTION 07: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING..... HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING MIST OR VAPOUR. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. USE ADEQUATE VENTILATION. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. TAKE MEASURES TO PREVENT THE BUILD UP OF ELECTROSTATIC CHARGE.  
 CONDITIONS FOR SAFE STORAGE..... KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. PROTECT CONTAINER FROM PHYSICAL DAMAGE. KEEP THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE IN A COOL AND WELL-VENTILATED AREA.

**SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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ISOPROPYL ALCOHOL 200 ppm 400 ppm  
 ENGINEERING CONTROLS..... GOOD VENTILATION SHOULD BE PROVIDED TO KEEP VAPOUR AND MIST CONCENTRATIONS BELOW THE EXPOSURE LIMITS.  
 SKIN AND BODY PROTECTION..... COMPLETE SUIT PROTECTING AGAINST CHEMICALS. THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE. FLAME RETARDANT ANTISTATIC PROTECTIVE CLOTHING.  
 RESPIRATORY PROTECTION..... USE NIOSH APPROVED SUPPLIED-AIR RESPIRATOR.  
 EYE/FACE PROTECTION..... SPLASH PROOF CHEMICAL GOGGLES. FACE SHIELD.  
 HYGIENIC MEASURES..... USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.  
 OTHER/TYPE..... EYE WASH STATION AND SAFETY SHOWER SHOULD BE LOCATED NEAR THE WORK STATION.

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**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE..... LIQUID.  
 ODOUR..... ALCOHOL LIKE.  
 ODOUR THRESHOLD..... NO DATA AVAILABLE.  
 PH..... NO DATA AVAILABLE.  
 MELTING POINT (C)..... NO DATA AVAILABLE.  
 FREEZING POINT (C)..... - 88 C.  
 BOILING POINT..... 82-83 C.  
 FLASH POINT (C), METHOD..... 12 C (CLOSED CUP).  
 EVAPORATION RATE..... 1.5 (nBuAc=1).  
 FLAMMABILITY (SOLIDS AND GASES)..... NOT APPLICABLE.  
 UPPER FLAMMABLE LIMIT (% BY VOL.)... 12 % (V).  
 LOWER FLAMMABLE LIMIT (% BY VOL.)... 2% (V).  
 VAPOUR PRESSURE..... 6.020 Pa (20 C).  
 VAPOUR DENSITY (AIR=1)..... 2 @ (20 C).  
 SPECIFIC GRAVITY (WATER=1)..... 0.785.  
 SOLUBILITY IN WATER (% W/W)..... COMPLETELY MISCIBLE.  
 AUTO IGNITION TEMPERATURE..... 425 (C).  
 PARTITION COEFFICIENT: ..... LOG POW: 0.05.  
 N-OCTANOL/WATER  
 DECOMPOSITION TEMPERATURE..... NO DATA AVAILABLE.  
 VISCOSITY..... NO DATA AVAILBLE.

**SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY:..... NO DATA AVIALBLE.  
 CHEMICAL STABILITY:..... STABLE UNDER RECOMMENDED STORAGE CONDITIONS.  
 POSSIBILITY OF HAZARDOUS REACTIONS VAPOURS MAY FORM EXPLOSIVE MIXTURE WITH AIR.  
 CONDITIONS TO AVOID:..... AVOID OPEN FLAMES AND SPARKS.  
 INCOMPATIBLE MATERIALS :..... STRONG OXIDIZING AGENTS.  
 HAZARDOUS DECOMPOSITION ..... CARBON OXIDES.  
 PRODUCTS

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
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ISOPROPYL ALCOHOL	INHALATION-RAT- 16000 ppm - ORAL-RAT- >5000 MG/KG 8h	
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ACUTE TOXICITY:  
 ORAL LD50..... SEE ABOVE.  
 INHALATION LC50..... SEE ABOVE.  
 DERMAL LD50..... RABBIT - 12800 MG/KG.  
 OTHER INFORMATION ON ACUTE ..... NO DATA AVAILABLE.  
 TOXICITY  
 SKIN CORROSION / IRRITATION..... RABBIT - MILD SKIN IRRITAION.  
 SERIOUS EYE DAMAGE / EYE IRRITATION RABBIT-EYE IRRITATION -24h.  
 RESPIRATORY OR SKIN SENSITIZATION. NO DATA AVAILABLE.  
 GERM CELL MUTAGENICITY..... NO DATA AVAILABLE.  
 CARCINOGENICITY..... IRAC: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC. ACGIH: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY ACGIH.  
 REPRODUCTIVE TOXICITY..... DOES NOT IMPAIR FERTILITY. NOT A DEVELOPMENTAL TOXICANT.  
 STOT- SINGLE EXPOSURE..... MAY CAUSE DROWSINESS OR DIZZINESS.  
 STOT - REPEAT EXPOSURE..... NO DATA AVAILABLE.  
 ASPIRATION HAZARD..... MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.  
 POTENTIAL HEALTH EFFECTS..... INHALATION - MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS. INGESTION - MAY BE HARMFUL IF SWALLOWED. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. EYES - MAY CAUSE EYE IRRITATION. SKIN - MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. MAY CAUSE SKIN IRRITATION.  
 SIGNS AND SYMPTOMS OF EXPOSURE.. CENTRAL NERVOUS SYSTEM DEPRESSION, PROLONGED OR REPEATED EXPOSURE CAN CAUSE, NARCOSIS, SKIN IRRITATION. OVER EXPOSURE MAY CAUSE MILD, REVERSIBLE LIVER EFFECTS. ASPIRATION MAY LEAD TO, LUNG EDEMA, PNEUMONIA.

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**SECTION 12: ECOLOGICAL INFORMATION**

PERSISTENCE AND DEGRADABILITY..... READILY BIODEGRADABLE.  
 BIOACCUMULATIVE POTENTIAL..... NO BIOACCUMULATION IS TO BE EXPECTED.  
 TOXICITY..... EC50 - DAPHNIA MAGNA (WATER FLEA) - 1.50 MG/L - 48H. TOXICITY TO FISH: LC50-  
 PRIMPHALES (FATHEAD MINNOW) - 96450 MG/L - 96H.  
 MOBILITY IN SOIL..... DISSOLVES IN WATER. IF THE PRODUCT ENTERS SOIL, ONE OR MORE  
 CONSTITUENTS WILL OR MAY BE MOBILE AND MAY CONTAMINATE GROUND  
 WATER.  
 OTHER ADVERSE EFFECTS..... NO DATA AVAILABLE.

**SECTION 13: DISPOSAL CONSIDERATIONS**

DISPOSAL CONSIDERATIONS:  
 WASTE DISPOSAL..... INCINERATION INCLUDING ENERGY RECOVERY OF WASTE MATERIAL IN A  
 PERMITTED FACILITY IN ACCORDANCE WITH LOCAL, STATE OR PROVINCIAL AND  
 FEDERAL REGULATIONS.

**SECTION 14: TRANSPORT INFORMATION**

UN NUMBER..... 1219.  
 TDG CLASSIFICATION..... 3.  
 PACKING GROUP..... II.  
 SPECIAL SHIPPING INSTRUCTIONS..... REFER TO TRANSPORTATION OF DANGEROUS GOOD REGULATIONS.

**SECTION 15: REGULATORY INFORMATION**

WHMIS CLASSIFICATION..... B2, D2B.  
 HPR COMPLIANCE..... THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD  
 CRITERIA OF THE HPR AND THE SDS CONTAINS ALL THE INFORMATION  
 REQUIRED BY THE HPR.

**SECTION 16: OTHER INFORMATION**

N.AP.=NOT APPLICABLE  
 N.AV.=NOT AVAILABLE  
 REPAIRED BY..... KLEEN-FLO TUMBLER IND. LTD.  
 PREPARATION DATE..... MAR 23/2016