


SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER:	CITRIC ACID / DEMULSIFIER / IPA
OTHER MEANS OF IDENTIFICATION:	None
RECOMMENDED USE:	Laboratory reagent
RESTRICTIONS ON USE:	None
SUPPLIER IDENTIFIER:	Di-Corp 8750-53 Ave Edmonton, AB T6E 5G2 780-440-4923
EMERGENCY PHONE NUMBER:	780-468-4064 (24 hr)
TRANSPORT EMERGENCY PHONE NUMBER:	1-888-CANUTEC (226-8832), 613-996-6666 or *666 on a cellular phone

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION:	Flammable Liquid - Category 2 Skin Corrosion / Irritation – Category 1 Serious Eye Damage / Eye Irritation - Category 1 STOT SE (Target Organs – CNS) - Category 3
LABEL SYMBOLS:	
SIGNAL WORD:	DANGER
HAZARD STATEMENTS:	Highly flammable liquid and vapor. Causes severe skin burns and eye damage. May cause drowsiness or dizziness
OTHER HAZARDS:	None
PRECAUTIONARY STATEMENTS:	Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof ventilating equipment. Use non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, clothing and eye and face protection. Wash skin thoroughly after handling. Do not breathe fumes, mists or vapours. Use only outdoors or in a well-ventilated area. Response IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. In case of fire: Use CO2, dry chemical or foam for extinction. Storage Store in a well-ventilated place. Keep cool. Store locked up. Disposal Dispose of contents/container in accordance with local, provincial or federal regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION (w/w)
Citric acid	77-92-9	30 - 60%
Isopropyl alcohol (isopropanol, 2-propanol)	67-63-0	15 - 40%
LABSA (ethylbenzene sulfonic acid; DDBSA)	68584-22-5	1 - 5%

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Immediately remove contaminated clothing and footwear. Wash skin thoroughly with soap and water for 15 minutes. If irritation persists, or prolonged contact has occurred, obtain medical attention.
EYE CONTACT:	Immediately flush with gently flowing warm water for minimum 20 minutes holding eyelids open. Remove contact lens, if present. When flushing is complete obtain medical attention.
INGESTION:	Contact a physician or poison center immediately. Do not induce vomiting unless directed to do so by a physician or poison control center. Rinse mouth and give 1-2 glasses of water. If vomiting occurs, keep head below hips to prevent aspiration, and re-administer water. Never give anything by mouth if victim is unconscious, rapidly losing consciousness or convulsing. Obtain medical attention.
INHALATION:	Move to fresh air. Apply oxygen or artificial respiration if required. Obtain immediate medical attention.
MOST IMPORTANT SYMPTOMS / EFFECTS:	May cause severe skin and eye irritation. Prolonged contact may cause burns. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	Immediately flush skin and eyes with water. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Carbon dioxide, dry chemical, water spray or foam.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use direct water stream: May spread fire.
SPECIFIC FIRE HAZARDS:	Highly flammable liquid and vapour. Can accumulate in confined spaces. Under fire conditions closed containers may rupture or explode. Flame may be invisible during the day.
HAZARDOUS COMBUSTION PRODUCTS:	Oxides of carbon, oxides of nitrogen, oxides of sulfur, hydrocarbons, smoke and irritating vapors as products of incomplete combustion.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Full protective equipment and self-contained breathing apparatus required for fire-fighting personnel. Remove containers from fire area, or cool with water spray, if possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Evacuate area and eliminate ignition sources. Enter area only if wearing appropriate safety equipment. Avoid all bodily contact with spilled material. Stop leak if possible to do so without risk.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Small spills; soak up with absorbent material and dispose in approved containers. Large spills; dike to contain spill. Recover uncontaminated material for repackaging. Collect contaminated material and absorbents in approved container for disposal. Flush spill area with water. Collect flush water in an approved container for disposal. Do not allow material to enter storm sewers or waterways.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid ingestion. Do not breathe mist or vapours. Wash thoroughly after handling. Practice reasonable caution and personal cleanliness. Launder exposed clothing before reuse. Avoid skin and eye contact. Wear suitable protection for eyes and skin when handling. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in dry, well ventilated FLAMMABLES area away from ignition sources and oxidizers. Keep container tightly closed when not in use. Empty containers contain residual hazardous material and must be handled and stored as if full.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	Isopropanol: ACGIH TWA = 200 ppm No other components have listed exposure limits.
ENGINEERING CONTROLS:	Use only with adequate ventilation. Local exhaust ventilation, process enclosure or other engineering controls as required to maintain vapour concentration below TLV's. Ensure exhaust system is explosion-proof.
	PERSONAL PROTECTIVE MEASURES
RESPIRATORY PROTECTION:	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.
PROTECTIVE GLOVES:	Viton gloves recommended.
EYE PROTECTION:	Chemical goggles and/or face shield recommended. Do not wear contact lenses.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Suggest the use of a chemical apron and/or chemical resistant clothing. Ensure eye-wash station and emergency shower are available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear colourless liquid
ODOUR:	Alcohol odor
ODOUR THRESHOLD:	Not determined
pH:	1.0
MELTING POINT / FREEZING POINT:	Not determined
BOILING POINT / RANGE:	Not determined
FLASH POINT:	12°C (based on IPA)
EVAPORATION RATE:	Not determined
FLAMMABILITY:	Flammable
FLAMMABILITY / EXPLOSIVE LIMITS:	Not available
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	Not available (SG = 1.1)
SOLUBILITY:	Miscible in water
PARTITION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE:	Not available
DECOMPOSITION TEMPERATURE:	Not available
VISCOSITY:	Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	No information available
CHEMICAL STABILITY:	Stable under normal conditions

POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization will not occur
 CONDITIONS TO AVOID: Open flame and ignition sources.
 INCOMPATIBLE MATERIALS: Avoid strong bases, strong oxidizers and water reactive materials.
 HAZARDOUS DECOMPOSITION PRODUCTS: May corrode metals producing hydrogen gas.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY: Not available

COMPONENT TOXICITY

COMPONENT	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Citric acid	6730mg/kg (rat)	Not available	Not available
Isopropanol	5840 mg/kg (rat)	12870 mg/kg (rabbit)	72.6 mg/L/4hr (rat)
LABSA	650 mg/kg (rat)	>2000 mg/kg (rabbit)	Not available

SKIN CONTACT: May cause irritation. Prolonged, or repeated, contact with skin may cause irritation or dermatitis. May cause tissue destruction.

EYE CONTACT: Will cause irritation and redness. Prolonged contact can cause opaqueness of cornea and possible tissue damage.

INGESTION: May cause headaches, nausea, abdominal pain, diarrhea, and vomiting. May cause burns of the gastrointestinal tract. Ingestion of large quantities may result in unconsciousness or death.

INHALATION: Vapours or mists may irritate the nose or throat. Inhalation of high concentrations may cause dizziness, headaches, or unconsciousness. Inhalation of liquids may cause bronchopneumonia or pulmonary edema.

CARCINOGENICITY: No information available.

TERATOGENICITY: Isopropyl alcohol: Developmental effects have been observed in some animal studies, but the effects were observed in the presence of maternal toxicity or at concentrations where maternal toxicity is expected to occur.

REPRODUCTIVE TOXICITY: Not toxic based on available information.

MUTAGENICITY: No information available.

CHRONIC TOXICITY: No information available.

TARGET ORGAN EFFECTS: Isopropyl Alcohol: STOT – single exposure: CNS effects.

SECTION 12: ECOLOGICAL INFORMATION

PRODUCT ECOTOXICITY: No product information available.

COMPONENT ECOTOXICITY

INGREDIENT	LC50 Fish	EC50 Daphnia	EC50 Algae
Citric acid	Not available	Not available	Not available
Isopropanol	9640 mg/L/96 hr	13299 mg/L/48 hr	1000 mg/L/72 hr
LABSA	1.67 mg/L/96 hr	2.4 mg/L/48 hr	47.3 mg/L/72 hr

PERSISTENCE AND DEGRADABILITY: No information available.

BIOACCUMULATIVE POTENTIAL: Bioaccumulation unlikely.

MOBILITY IN SOIL: No information available.

OTHER ADVERSE EFFECTS: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose/incinerate in accordance with federal, state and local regulations. Do not dump into sewer drains, watercourses or on the soil. Offer surplus and non-recyclable material to a licensed disposal company. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty containers, which have not been cleaned and purged, contain residual hazardous material and must be disposed of, or recycled, according to local regulations.

SECTION 14: TRANSPORTATION INFORMATION

TDG:	Regulated
DOT:	Regulated
IATA:	Regulated
IMDG:	Regulated
UN NUMBER:	UN2924
PROPER SHIPPING NAME:	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (isopropyl alcohol)
CLASS:	3 (8)
PACKING GROUP:	II
IMDG HAZARDS:	Not available
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	Not available

SECTION 15: REGULATORY INFORMATION

DSL:	All ingredients are listed on the DSL.
WHMIS CLASS:	B2, E
TSCA:	All ingredients are listed or exempt from listing.

SECTION 16: OTHER INFORMATION

REVISION DATE:	August 30, 2019
REPLACES:	None

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