


SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER:	Phenolphthalein Indicator Solution
OTHER MEANS OF IDENTIFICATION:	None
RECOMMENDED USE:	Laboratory chemical
RESTRICTIONS ON USE:	None
SUPPLIER IDENTIFIER:	Di-Corp Testing Equipment Unit 2, 4816-35B St. SE Calgary, Alberta T2B 3N1 403-268-7912
	A division of : 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 Eye Irritant - Category 2 Carcinogenicity – Category 1B STOT SE - Category 3
LABEL SYMBOLS:	
SIGNAL WORD:	Danger Highly flammable liquid and vapor
HAZARD STATEMENTS:	Causes serious eye irritation May cause cancer May cause drowsiness or dizziness
OTHER HAZARDS:	None
PRECAUTIONARY STATEMENTS:	Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Avoid breathing vapours. Use only outdoors or in a well-ventilated area. Wear protective gloves, clothing and eye and face protection. Wash hands thoroughly after handling.

Response

If exposed or concerned: Get medical attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation continues: Get medical attention.

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
Isopropyl alcohol	67-63-0	50% (v/v)
Phenolphthalein	77-09-8	0.5 (w/v)

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Immediately remove contaminated clothing and footwear. Wash skin thoroughly with soap and water. If irritation persists, or prolonged contact has occurred, obtain medical attention.
EYE CONTACT:	Immediately flush with gently flowing warm water for 15 minutes holding eyelids open. Remove contact lens, if present. If irritation persists, obtain medical attention.
INGESTION:	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:	Breathing difficulties. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	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. Triple rinse empty containers and dispose in general trash.

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.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in dry, well ventilated area away from ignition sources and oxidizers. Keep container tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	Isopropanol: ACGIH TWA = 200 ppm Phenolphthalein: Not available
ENGINEERING CONTROLS:	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 face shield recommended.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Suggest the use of a chemical apron and/or chemical resistant clothing. Ensure eye-wash station is available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear colourless liquid
ODOUR:	Alcohol odor
ODOUR THRESHOLD:	Not determined
pH:	Not available
MELTING POINT / FREEZING POINT:	Not determined
BOILING POINT / RANGE:	Not determined
FLASH POINT:	21.7°C (literature)
EVAPORATION RATE:	Not determined
FLAMMABILITY:	Not available
FLAMMABILITY / EXPLOSIVE LIMITS:	Not available
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	~0.8
SOLUBILITY:	Miscible in water
PARTION 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: Strong acids, strong bases and strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: No information available.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY: Not available

COMPONENT	COMPONENT TOXICITY		
	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Isopropanol	5840 mg/kg (rat)	12870 mg/kg (rabbit)	72.6 mg/L/4hr (rat)
Phenolphthalein	Not available	Not available	Not available

SKIN CONTACT: May cause mild irritation.
EYE CONTACT: May cause moderate to severe irritation.
INGESTION: No adverse effects expected from incidental ingestion. Ingestion of large amounts may cause CNS depression, gastrointestinal effects and in severe cases, low blood pressure and kidney failure.
INHALATION: May cause irritation of the upper respiratory tract. Long-term exposure, or exposure to high concentrations of vapour or mist, may cause lightheadedness, giddiness, drowsiness, headache, nausea, vomiting, loss of coordination, loss of consciousness, coma and death.
CARCINOGENICITY: IARC and NTP have listed phenolphthalein as an animal carcinogen.
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: Phenolphthalein; positive results (chromosome aberrations) obtained following the oral administration of high doses to mice.
CHRONIC TOXICITY: No information available.
TARGET ORGAN EFFECTS: No information available.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Isopropanol: LC50 fish = 9640 mg/L/96 hr
Isopropanol: EC50 daphnia = 13299 mg/L/48 hr
Isopropanol: EC50 algal = 1000 mg/L/72 hr
PERSISTENCE AND DEGRADABILITY: Readily biodegradable.
BIOACCUMULATIVE POTENTIAL: Bioaccumulation unlikely.
MOBILITY IN SOIL: Mobile
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.

SECTION 14: TRANSPORTATION INFORMATION

TDG:	Regulated
DOT:	Regulated
IATA:	Regulated
IMDG:	Regulated
UN NUMBER:	UN1219
PROPER SHIPPING NAME:	Isopropanol solution
CLASS:	3
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, D2A, D2B
TSCA:	All ingredients are listed or exempt from listing.

SECTION 16: OTHER INFORMATION

REVISION DATE:	March 13, 2019
REPLACES:	August 22, 2016

The information contained herein is given in good faith, but no warranty, expressed or implied, is made.