

PRODUCT NAME: **ISOPROPYL 99.5% (v/v)**

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Date Prepared or Revised: May 2022

MANUFACTURED BY: Quang Trung Trading Production CO., LTD

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TRANSPORTATION

PRIMARY CLASS: 3 CLASS NAME: FLAMMABLE LIQUID

SUBSIDIARY CLASS: NONE

SHIPPING NAME: ISOPROPYL ALCOHOL

CAS-No: 67-63-0

I. EMERGENCY AND FIRST AID PROCEDURE

INGESTION

- Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing.
- DO NOT INDUCE VOMITING.
- Have victim drink about 250ml (8fl. oz.) of water to dilute material in stomach.
- If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
- Seek medical assistance

SKIN

- Flush contaminated area with water for at least 20 minutes.
- Remove contaminated clothing under running water.
- Completely decontaminate clothing before re-use, or discard.
- If irritation occurs seek medical attention.

INHALATION

- Remove victim to fresh air.
- Artificial respiration should be given if breathing has stopped and cardiopulmonary resuscitation if heart has stopped.

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- Oxygen may be given if necessary.
- Seek medical attention immediately.

EYES

- Immediately flush eyes with water for at least 20 minutes, holding the eyelids open.
- Seek medical attention immediately.

NOTES TO PHYSICIAN

- Symptoms of ethanol intoxication vary with the alcohol level of the blood. Mild alcohol intoxication occurs at blood levels between 0.05-0.15% and approximately 25% of individuals will show signs of intoxication at these levels. Above 0.15% the person is definitely under the influence of ethanol and 50-95% of individuals at this level are clinically intoxicated. Severe poisoning occurs when the blood ethanol level is 0.3-0.5%. Above 0.5% the individual will be comatose and death can occur.
- The unabsorbed ethanol should be removed by gastric lavage after intubating the patient to prevent aspiration.
- Avoid the use of depressant drugs or the excessive administration of fluids.

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, IS MADE WITH RESPECT TO INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN.

II. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT, oC 16.6 (Closed cup)

FLAMMABLE LIMITS, % V/V: Lower : 3.3/ Upper: 19

EXTINGUISHING MEDIA

- Apply alcohol-type or all-purpose-type foams by manufacturers' recommended techniques for large fires.
- Use carbon dioxide or dry chemical media for small fires.
- Water is generally unsuitable and may help to spread the fire.

SPECIAL FIRE FIGHTING PROCEDURES

- Use water spray to cool fire-exposed containers and structures.

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- Use water spray to disperse vapours; reignition is possible.
- Use self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

- Vapours form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from handling point.

III. IDENTIFICATION

CHEMICAL NAME ISOPROPYL ALCOHOL (99.5% VOL)

CHEMICAL FAMILY ALCOHOLS

FORMULA (1) CH₃ – CHO_H – CH₃

MOLECULAR WEIGHT (1) 46.07

SYNONYMS USE

General purpose organic solvent, aerosols, cosmetics, pharmaceuticals, alcoholic beverages, vinegar production, etc.

USE

General purpose organic solvent, aerosols, cosmetics, pharmaceuticals, alcoholic beverages, vinegar production, etc.

IV. PHYSICAL DATA

BOILING POINT, °C at 760mm Hg	78
MELTING POINT, °C at 760mm Hg	114
FREEZING POINT, °C	Not Available
DENSITY, kg/m ³ at 20°C	790.0 to 793.0
COEFFICIENT OF WATER/OIL DISTRIBUTION	Separates from oil
pH	Not applicable
DISTILLATION RANGE, °C	78.0 - 79.0

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MISCIBILITY IN WATER	Complete
% VOLATILES BY VOLUME	100
EVAPORATION RATE (butyl acetate = 1)	1.7

APPEARANCE AND ODOUR : Clear liquid, colorless with mild odor

V. INGREDIENTS AND TOXICOLOGICAL DATA

COMPONENT	% V/V	TLV, ppm	LC50, ppm/4h.	LD50, mg/kg	LD50, mg/kg
			RAT, INHAL.	RAT, ORAL	RABBIT, SKIN
Isopropyl Alcohol	99.5	1000	31,623	7,060	20,000
Water	Balance				

REFERENCES: ACGIH (1988-1989), RTECS (1983).

VI. WHMIS CLASSIFICATION AND SYNERGISTIC MATERIALS

WHMIS CLASSIFICATION: Flammable liquid, eye irritant.

SYNERGISTIC MATERIALS: Carbon tetrachloride, chloroform, bromotrichloromethane, dimethylnitrosamine

VII. HEALTH HAZARD DATA

INGESTION

May cause dizziness, faintness, drowsiness, decreased awareness and responsiveness, euphoria, abdominal discomfort, nausea, vomiting, staggering gait, lack of coordination and coma.

SKIN ABSORPTION

No adverse effects with normal skin. However, potentially harmful amounts of material may be absorbed across markedly abraded skin when contact is sustained, particularly in children.

INHALATION

High vapour concentrations may cause a burning sensation in the throat and nose, stinging and watering in the eyes. At concentrations which cause irritation, dizziness, faintness, drowsiness, nausea and vomiting may occur.

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SKIN CONTACT

No evidence of adverse effects from available information

EYE CONTACT

- Severe eye irritant.
- Vapours can irritate eyes.
- Eye damage from contact with liquid is reversible and proper treatment will result in healing within a few days.
- Damage is usually mild to moderate conjunctivitis, seen mainly as redness of the conjunctiva.

EFFECT OF REPEATED OVEREXPOSURE

Long term repeated oral exposure to ethanol may result in the development of progressive liver injury with fibrosis.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE

- Repeated exposure to ethanol may exacerbate liver injury produced from other causes.

OTHER EFFECTS OF OVEREXPOSURE

Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, producing a collection of effects which together constitute the fetal alcohol syndrome. These include mental and physical retardation, disturbances of learning, motor and language deficiencies, behavioral disorders, and small size head.

VIII. REACTIVITY DATA

STABILITY	Stable
CONDITIONS TO AVOID •	Sources of ignition
INCOMPATIBILITY •	Oxidizing materials
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS	
Burning can produce carbon monoxide and/or carbon dioxide and/or formaldehyde.	
HAZARDOUS POLYMERIZATION	Will not occur
CONDITIONS TO AVOID •	None currently known

IX. SPILL OR LEAK PROCEDURES

SPILL

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- Contain spilled material.
- Provide adequate ventilation and protective equipment.
- Remove sources of heat, sparks or flames.
- Spill should be collected in suitable containers or absorbed on a suitable absorbent material for subsequent disposal.

WASTE DISPOSAL

Waste material should be disposed of in an approved incinerator or in a designated landfill site, in compliance with all federal, provincial and local government regulations.

X. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

- Up to 1000 ppm, an approved organic vapour cartridge respirator can be used.
- For concentrations above 1000 ppm, an air-supplying respirator is recommended.
- The user should consult a respirator guide, such as the Canadian Standards Association's guide Z94.4-M1982.

VENTILATION

- The ventilation system should be non-sparking, grounded and separate from other exhaust ventilation systems.
- Local ventilation is recommended when handling.

PROTECTIVE GLOVES

Neoprene, butyl or natural rubber.

EYE PROTECTION

Chemical resistant monogoggles when handling

OTHER PROTECTIVE EQUIPMENT

Eye bath, safety shower and other protective equipment as required.

XI. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

- Keep away from heat, sparks and flames.
- Keep container closed when not in use.
- Use with adequate ventilation.

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- Avoid breathing vapours.
- Avoid contact with eyes and skin.
- Wash exposed skin thoroughly after handling.
- Take precautions to prevent static electricity build-up when transferring contents.

OTHER PRECAUTIONS •

Good personal hygiene practices are suggested, such as abstaining from eating, drinking and smoking in the workplace.

XII. HANDLING AND STORAGE

HANDLING

- Protect against physical damage. Ensure good ventilation/ exhaustion and do not breathe vapor.
- Avoid contact with eyes, skin and clothing
- Avoid prolonged or repeated exposure
- Do not use if skin is cut or scratched

STORAGE

Keep container tightly closed. Keep away from heat, sparks, flame and incompatible material. Storage area should be cool, dry, and away from incompatible materials. Containers of this material may be hazardous when empty since they retain product residues. Do not store near perchlorates, peroxides, chromic acid or nitric acid.

OTHER PRECAUTIONS : Keep respiratory protective device available

XIII. MSDS PREPARATION

PREPARED BY Quality Assurance Department

PHONE NUMBER 0936 38 32 35

DATE: May 25, 2022

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