# **ChapTec**

## **ISOPROPYL ALCOHOL 70%**

# **Section 1. Identification**

Product identifier : ISOPROPYL ALCOHOL 70%

Product code : Not available.

Other means of identification : Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : General purpose organic solvent.

Manufactured/supplied : CHAPTEC Inc.

470 avenue Laurendeau Montreal-East, QC Canada H1B-5M2 Tel: +1-514-498-3620

Emergency telephone number (with hours of operation)

: CANUTEC: +1-613-996-6666 or \*666 (cellular) POISON CONTROL CENTER: (800) 463-5060 24/7

# Section 2. Hazard identification

Classification of the substance

or mixture

: FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

**GHS label elements** Hazard pictograms





Signal word : Danger

**Hazard statements**: H225 - Highly flammable liquid and vapor.

H311 + H331 - Toxic in contact with skin or if inhaled.

H302 - Harmful if swallowed. H319 - Causes serious eve irritation.

May cause drowsiness, confusion and dizziness.

**Precautionary statements** 

Prevention

: P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor.

P270 - Do not eat, drink or smoke when using this product. Grounding and classified equipment

explosion-proof.

Response : P308 + P311 - IF exposed or concerned: Call a POISON CENTER or physician.

P304 + P340 + P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or physician.

P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P302 + P361+P364 + P352 + P312 + P362+P364 - IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and

wash it before reuse. P332 + P313 - If skin irritation occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

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# Section 2. Hazard identification

P337 + P313 - If eye irritation persists: Get medical attention.

Storage : P405 - Store locked up and ventilated place.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and

international regulations.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

Ingredient name	% (w/w)	CAS number
Isopropyl alcohol	60 - 80	67-63-0

The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First-aid measures

#### **Description of necessary first aid measures**

### Eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention. If necessary, call a poison center or physician.

#### Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### **Skin contact:**

Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

#### Ingestion:

Do not induce vomiting. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Harmful if inhaled, effect on central nervous system, hypotension, respiratory arrest

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# Section 4. First-aid measures

**Skin contact**: Toxic in contact with skin. Causes skin irritation.

Ingestion : Harmful if swallowed, not very toxic. In large quantities: confusion, redness of the face, low blood

pressure, heart rhythm disorder.

Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

Severe irritation and excessive pain in relation to the degree of irritation:

tearing, redness

**Inhalation** : No known significant effects or critical hazards.

Skin contact : Adverse symptoms may include the following:

irritation redness

Ingestion : Harmful if swallowed. May cause central nervous system effects, such as headache, nausea,

dizziness, abdominal pain, confusion and difficulty breathing. Small amounts ingested as a result of normal handling should not cause injury; however, ingestion of larger amounts may cause injury. Signs and symptoms of excessive exposure may include: redness of the face, low blood pressure, and

irregular heartbeat.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

**Specific treatments** : Cases of severe intoxication may require hemodialysis.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that

fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media : Use dry chemical, CO2, water spray (fog) or foam. No direct jet on the area.

Unsuitable extinguishing media : Do not use water jet or water-based fire extinguishers which can spread the fire.

Specific hazards arising from the chemical

: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if

explosion. The flame of the product is invisible.

Hazardous thermal decomposition products

: Decomposition products depend on temperature, air supply and presence of other materials.

Special protective actions for fire-fighters

: Firefighters must wear a self-contained breathing apparatus and full response gear. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

heated, a pressure increase will occur and the container may burst, with the risk of a subsequent

Special protective equipment for fire-fighters

: It is imperative that fire-fighters wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

FDS conforme au SGH - Canada SIMDUT 2015

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# Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

Spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Vapors are heavier than air.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

: Cool and ventilated place, no sources of heat or ignition nearby. Peroxides can form on contact with air. Peroxides can be explosive. Shelf life in barrel = 20 months. Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.



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# Section 8. Exposure controls/personal protection

Control parameters
Occupational exposure limits

Ingredient name	Exposure limits
Isopropyl alcohol	CA Alberta Provincial (Canada).  8 hrs OEL: 200 ppm 8 hours.  8 hrs OEL: 492 mg/m³ 8 hours.  OEL British Columbia Provincial (Canada).  STEL: 400 ppm TWA 200 ppm.  CA Ontario Provincial (Canada).  STEL: 400 ppm TWA 400 ppm.  OEL Quebec Provincial (Canada).  TWA: 400 ppm / 985 mg/m³.  STEL: 1230 mg/m³. Immediate danger for lifeDIVS: 2000 ppm.  ACGIH Exposure limit.  STEL: 400 ppm.  TLV-TWA: 200 ppm.

# Appropriate engineering controls

: Electrical mechanical devices must be explosion proof. An air induction respirator is recommended when the concentration in the air exceeds the exposure limits. Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment.

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## **Individual protection measures**

Hygiene measures

### **Eye/face protection**

**Skin protection**Hand protection

# Body protection

Other skin protection

Respiratory protection

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. An air induction respirator is recommended when the concentration in the air exceeds the exposure limits.



## ISOPROPYL ALCOHOL 70%

# Section 9. Physical and chemical properties

**Appearance** 

**Physical state** : Liquid. : Colorless. Color Odor : Alcohol.

**Odor threshold** : Not available. : Not available. pН : -89°C / -128°F) **Melting point** : 82°C / 180°F) **Boiling point** 

Flash point : Closed cup: 12°C (53.6°F) [Tagliabue.] ASTM D56

: 1.5 (Butyl acetate = 1) **Evaporation rate** 

Flammability (solid, gas) : Not available. Lower and upper explosive : Lower: 2.0% (flammable) limits Upper: 12% Vapor pressure : 3 hPa @ 20°C.

: 2.1 Vapor density

: 0.88 @ 20°C (68 °F). **Relative density** 

**Solubility** : Completely soluble in water.

Partition coefficient: n-

octanol/water

: Not available.

: 425°C / 727°F **Auto-ignition temperature Decomposition temperature** : Not available.

**Viscosity** : Dynamic 2.4 mPa/s @ 20°C.

Flow time (ISO 2431) : Not available.

# Section 10. Stability and reactivity

: Stable. Reactivity

**Chemical stability** : The product is stable.

Possibility of hazardous

Conditions to avoid

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur. Decomposes at high

temperature, avoided ignition source.

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder,

drill, grind or expose containers to heat or sources of ignition.

Incompatible materials : Reactive or incompatible with the following materials: Strong acid, aldehyde, halogen and organohalogen.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced. The polymerization will not occur.



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# **Section 11. Toxicological information**

## Information on toxicological effects

**Acute toxicity** 

Product/ingredient name	Result	Species	Dose	Exposure
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m³	4 hours
	LD50 Dermal	Rabbit	4059 mg/kg	-
	LD50 Oral	Rat	1870 mg/kg	-

#### **Irritation/Corrosion**

There is no data available.

#### **Sensitization**

There is no data available.

#### **Mutagenicity**

There is no data available.

#### Carcinogenicity

There is no data available.

#### **Reproductive toxicity**

There is no data available.

#### **Teratogenicity**

There is no data available.

#### Specific target organ toxicity (single exposure)

Name	Category	Target organs
Isopropyl alcohol	Category 3	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

There is no data available.

#### Aspiration hazard.

There is no data available.

Information on the likely routes

of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Harmful if inhaled, effect on central nervous system, hypotension, respiratory arrest

Skin contact : Toxic in contact with skin. Causes skin irritation.

Ingestion : Harmful if swallowed, not very toxic. In large quantities: confusion, redness of the face, low blood

pressure, heart rhythm disorder.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following: Severe

irritation and excessive pain

in relation to the degree of irritation: tearing, redness

**Inhalation** : No known significant effects or critical hazards.

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# **Section 11. Toxicological information**

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Ingestion : Harmful if swallowed. May cause central nervous system effects, such as headache, nausea,

dizziness, abdominal pain, confusion and difficulty breathing. Small amounts ingested as a result of normal handling should not cause injury; however, ingestion of larger amounts may cause injury. Signs and symptoms of excessive exposure may include: redness of the face, low blood pressure, and

irregular heartbeat.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate effects**: No known significant effects or critical hazards.

Potential delayed effects : Confusion, nausea, dizziness.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General: No known significant effects or critical hazards.

Carcinogenicity : CIRC: Groupe 1 et 3.

**Mutagenicity**: No known significant effects or critical hazards.

Teratogenicity : Teratogenic, in animals.

Developmental effects : Weight loss for animal fetus.

Fertility effects : Positive and negative mutagenic effect for invitro cell.

Numerical measures of toxicity

**Acute toxicity estimates** 

Route	ATE value
Oral	1.870 mg/kg
Skin	4059 mg/kg

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Isopropyl alcohol	Acute EC50 1000 mg/L Fresh water Acute EC50 1000 mg/L Fresh water Acute LC50 11130 mg/l Marine water CL50 1400000 μg/L Fresh water Acute EC50 13299 mg/L Marine water Acute CL50 212500 μg/L Fresh water Chronic NOEC 2400 μg/L Fresh water Chronic NOEC 75.6 mg/L Fresh water	Algae - Desmodesmus Algae - Desmodesmus Fish - Pimephale Promelas Fish - Pimephale Promelas Crustaceans - Daphnia Magna Fish - Pimephales Promelas Crustaceans - Daphnia Magna Algae - Desmodesmus	72 hours 96 hours 96 hours 96 hours 48 hours 96 hours 48 hours 96 hours



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# Section 12. Ecological information

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Isopropyl alcohol	N/D	N/D	low

#### **Mobility in soil**

Soil/water partition coefficient

(KOC)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	TDG Classification	IMDG	IATA
UN number	UN1219	UN1219	UN1219
UN proper shipping name	ISOPROPANOL	ISOPROPANOL	ISOPROPANOL
Transport hazard class(es)	3	3	3
Packing group	II	II	II
Environmental hazards	No.	No.	No.

Additional information TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).

IMDG : <u>Emergency schedules</u> F-E, S-D

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# **Section 14. Transport information**

Emergency Response : 131

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and

secure. Ensure that persons transporting the product know what to do in the event of an accident or

spillage.

# Section 15. Regulatory information

**Canadian lists** 

Canada inventory (DSL NDSL) : All components are listed or exempted.

Canadian NPRI : The following components are listed: Isopropyl alcohol

**CEPA Toxic substances**: None of the components are listed.

# Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3	On basis of test data Expert judgment Expert judgment On basis of test data On basis of test data

#### **History**

**Date of issue** : 10-10-2021

Date of previous issue : Not applicable.

Version : 3

Prepared by : ChapTec

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International

Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by

the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

HPR = Hazardous Products Regulations

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above- named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.