

SAFETY DATA SHEETS

This SDS packet was issued with item:

070831503

N/A

MATERIAL SAFETY DATA SHEET

Patterson Companies, Inc.
1031 Mendota Heights Road
St. Paul, MN 55120
Tel: 1-800 328-5536
Fax: 1-651 686-9331

PRODUCT NAME: Patterson Isopropanol 12x 500ml

PRODUCT CODE: 070831503

EMERGENCY TELEPHONE:

24-hour Emergency Response Number: (800) 424-9300.

N.D.: NO DATA AVAILABLE N.A.: NOT APPLICABLE

SECTION 1 – PRODUCT IDENTIFICATION

COMMERCIAL NAME: 99% ISOPROPYL ALCOHOL (A063)
70% RUBBING ISOPROPYL ALCOHOL (A066)
70% RUBBING ISOPROPYL ALCOHOL RED (A522)

CHEMICAL NAME: Propanol-2; Isopropanol. (Aqueous solution 70-99%)

CHEMICAL FORMULA: (CH₃)₂CHOH

CHEMICAL FAMILY: Organic

CODE: A063 = 99%;
A066 = 70%;
A522 = 70%-RED

PRODUCT USE: Rubbing alcohol.

WHMIS CLASSIFICATION: Natural Health Product for topical use.

TDG CLASSIFICATION: 99% = ISOPROPANOL; 1219; 3; (II)
70% = ISOPROPANOL; 1219; 3; (II)

SECTION 2 – INGREDIENTS

CONTROLLED INGREDIENTS (Over 1% (w/w)):

ISOPROPYL ALCOHOL CAS: 67-63-0 70 - 99% V/V

LD50 (MOUSE-ORAL) = 4720 mg/Kg;
LD50 (RABBIT-SKIN) = 12900 mg/Kg;
LC50 (RAT) = 12000 ppm/8 hr

SECTION 3 - PHYSICAL CHARACTERISTICS

PHYSICAL STATE, ODOR & APPEARANCE: Clear colorless liquid having a characteristic IPA odor (A063-99%);
Clear colorless liquid having a characteristic IPA odor (A063-70%);
Clear red liquid having a characteristic IPA odor (A063-70%-RED)

THRESHOLD ODOUR: 40 ppm

BOILING POINT: 82 - 83°C (A063-99%)

pH AT 25°C: N.D.

SPECIFIC GRAVITY AT 20°C. (water=1): 0.88 (A063-99%);
0.79 (A066-70% & A522-70%-RED)

VAPOUR PRESSURE mmHg AT 20°C: N.D.

VAPOUR DENSITY (air=1): N.D.

WATER SOLUBILITY: Complete water solubility

FREEZING POINT: -86 to -89°C (A063-99%);
-26.7°C (A066-70% & A522-70%-RED)

EVAPORATION RATE: N.D.

PARTITION COEFFICIENT (WATER/OIL): Completely miscible with water.

FLASH POINT: 14°C (Tag Closed Cup (A063-99%);
21°C (Tag Closed Cup) (A066-70% & A522-70%-ROUGE)

AUTOIGNITION TEMPERATURE: 399°C (A063-99%);

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SECTION 4 - REACTIVITY

STABILITY: Chemically stable under normal conditions.

CONDITIONS TO AVOID: Avoid exposure to heat, flame or sparks.

INCOMPATIBILITE: Incompatible with strong acids & alkalis and with oxidizing & reducing agents.

HAZARDOUS DECOMPOSITION: N.A.

HAZARDOUS POLYMERISATION: None.

SECTION 5 - FIRE AND EXPLOSION HAZARD

FLAMMABILITY: Flammable liquids and vapor.

SPECIAL FIRE HAZARDS: Containers can build up pressure if exposed to heat and/or fire.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide and carbon dioxide can be produce.

FIRE FIGHTING MEDIA: Use alcohol-resistant foam, carbon dioxide or chemical powders for small fires. Do not use straight streams of water because that may be ineffective. For larger amounts (multiple packages / pallets) of product: Since toxic, corrosive or flammable vapours might de evolved from fires involving this product and associated packaging, self contained breathing apparatus and full protective equipments are recommended for firefighters.

SECTION 6 - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE:

EYES: Contacts with the eyes and mucous membrane can cause severe irritation, redness and pain.

SKIN: In normal use, does not cause irritation. However, sensitive individuals may develop minor skin irritation.

INHALATION: Inhalation of high concentration may cause nausea, headache and dizziness. May irritate the respiratory tract.

INGESTION: If ingested, undesirable effects are to be expected, it may cause nausea and vomiting.

EFFECTS OF CHRONIC EXPOSURE:

Prolonged and repeated exposure by application on the skin may cause a chronic skin irritation and dry skin.

SECTION 7 - PREVENTATIVE MEASURES

AS NEEDED, APPLY THE APPROPRIATE MEASURES ACCORDING TO THE AMPLITUDE OF EXPOSURE.

SKIN: N.A.

EYES: Avoid any contact with the eyes.

RESPIRATORY TRACT: N.A.

OTHER PROTECTIVE EQUIPMENTS: N.A.

VENTILATION: N.A.

IN CASE OF SPILL OR LEAK: Remove all sources of ignition. Absorb spills with a neutral absorbing material. Provide ventilation.

WASTE DISPOSAL: As dictated by the federal, provincial and municipal, rules.

STORAGE REQUIREMENTS: Keep bottle tightly closed and store at room temperature and keep away from heat, sparks and flame.

SECTION 8 – FIRST AID MEASURES

EYES: Flush eyes immediately with large volumes of water for 15 minutes. Consult a physician.

SKIN: In case of accidental contact with skin, rinse with water. If irritation appears, it will probably disappear if not, consult a physician.

INHALATION: Remove from exposure and move to fresh air.

INGESTION:. Do not induce vomiting. Give water. In case of non-induced vomiting, lean victim forward to prevent any risk of asphyxia. Never give any liquid to an unconscious person. Get medical attention.

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SECTION 9 - OTHER INFORMATION

REVISED IN: March 03, 2014
REPLACE VERSION OF: February 25, 2014

The information contained in this form has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, we cannot give any guarantee regarding information from other sources and expressly do not make any warranties nor assume any liability for its use.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 09.13.2018

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PATTERSON 70% ISOPROPYL ALCOHOL 500 ML

SECTION 1: Identification

Product identifier

Product name: PATTERSON 70% ISOPROPYL ALCOHOL 500 ML

Product code: 070831503

Recommended use of the product and restriction on use

Relevant identified uses: For institutional or industrial use only.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

Supplier

Patterson Companies, Inc.

1031 Mendota Heights Road

St. Paul, MN 55120

1-800-328-5536 Fax:1-651-686-9331

Emergency telephone number:

United States

CHEMTREC

Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)

Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

SECTION 2: Hazard(s) identification

GHS classification:

Flammable liquids, category 2

Eye irritation, category 2A

Specific target organ toxicity - single exposure, category 3, central nervous system

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

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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.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash hands and eyes thoroughly after handling.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378 In case of fire: Use agents recommended in Section 5 for extinction.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists get medical advice/attention
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P403+P235 Store in a well ventilated place. Keep cool.
P405 Store locked up.
P403+P233 Store in a well ventilated place. Keep container tightly closed.
P501 Dispose of contents and container as instructed in Section 13.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 67-63-0	Propan-2-ol	70

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention
Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open
Remove contact lenses, if present and easy to do so
Continue rinsing for 15-20 minutes
Get medical advice if eye irritation persists

After swallowing:

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Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Vapors can flow to distant ignition sources and flashback

Liquid is volatile and may generate an explosive atmosphere

May form corrosive mixtures with water

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Beware of vapors accumulating to form explosive concentrations

Vapors can accumulate in low areas

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Use spark-proof tools and explosion-proof equipment

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

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Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

- Use only with adequate ventilation.
- Avoid breathing mist or vapor.
- Do not eat, drink, smoke or use personal products when handling chemical substances.
- Take precautionary measures against electrostatic discharges.
- Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities:

- Keep container tightly sealed.
- Protect from freezing and physical damage.
- Store in a cool, well-ventilated area.
- Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Propan-2-ol	67-63-0	ACGIH TLV STEL 400 ppm
	Propan-2-ol	67-63-0	ACGIH TLV TWA 200 ppm
NIOSH	Propan-2-ol	67-63-0	NIOSH IDLH 2,000 ppm
	Propan-2-ol	67-63-0	NIOSH STEL 500 ppm, 1,225 mg/m ³
	Propan-2-ol	67-63-0	NIOSH TWA 400 ppm, 980 mg/m ³
United States (OSHA)	Propan-2-ol	67-63-0	OSHA PEL TWA 400 ppm, 980 mg/m ³

Biological limit values:

Substance	Identifier	Determinant	Sampling time	Permissible limits
Propan-2-ol	67-63-0	Acetone	End of shift at end of workweek.	40 mg/L

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

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Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear, colorless liquid having a characteristic IPA odor
Odor	Characteristic IPA odor
Odor threshold	40 ppm
pH	Not determined or not available.
Melting point/freezing point	-26.7 °C
Initial boiling point/range	82 -83 °C
Flash point (closed cup)	21 °C (Tag Closed Cup)
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Flammable liquids and vapor.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	0.79 at 20 °C
Solubilities	Complete water solubility.
Partition coefficient (n-octanol/water)	Completely miscible with water.
Auto/Self-ignition temperature	399 °C
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

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Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Propan-2-ol	oral	LD50 - Rat - 5050 mg/kg
	dermal	LD50 - Rabbit - 12800 mg/kg

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Serious eye damage/irritation

Assessment: Causes serious eye irritation

Product data:

No data available.

Substance data:

Name	Result
Propan-2-ol	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Propan-2-ol	Group 3 - Not classifiable as to its carcinogenicity to humans

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

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Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: May cause drowsiness or dizziness

Product data:

No data available.

Substance data:

Name	Result
Propan-2-ol	Specific Target Organ Toxicity, Single Exposure - May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

Skin: In normal use, does not cause irritation. However, sensitive individuals may develop minor skin irritation.

Eyes: Contact with the eyes and mucous membrane can cause severe irritation, redness and pain.

Inhalation: Inhalation of high concentration may cause nausea, headache and dizziness. May irritate the respiratory tract.

Ingestion: If ingest, undesirable effects are to be expected. It may cause nausea and vomiting.

Other information:

Chronic Exposure: Prolonged and repeated exposure by application on the skin may cause chronic skin irritation and dry skin.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Propan-2-ol	LC50 - Fathead minnows - 4200 mg/L - (96 h)
	LC50 - Daphnia magna - 1400 mg/L - (48 h)

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Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Propan-2-ol	Readily biodegradable in water.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN 1219
UN proper shipping name	ISOPROPANOL
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	UN 1219
UN proper shipping name	ISOPROPANOL
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN 1219
UN proper shipping name	ISOPROPANOL

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UN transport hazard class(es)	3	
Packing group	II	
Environmental hazards	None	
Special precautions for user	None	

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

67-63-0	Propan-2-ol	Listed
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Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

67-63-0	Propan-2-ol	Listed
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CERCLA: Not determined.

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

67-63-0	Propan-2-ol	Listed
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New Jersey Right to Know:

67-63-0	Propan-2-ol	Listed
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New York Right to Know:

67-63-0	Propan-2-ol	Listed
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Pennsylvania Right to Know:

67-63-0	Propan-2-ol	Listed
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California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-3-0

HMIS: 2-3-0

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End of Safety Data Sheet

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PATTERSON 70% ISOPROPYL ALCOHOL 500 ML

SECTION 1: Identification

Product identifier

Product name: PATTERSON 70% ISOPROPYL ALCOHOL 500 ML

Product code: 070831503

Recommended use of the product and restriction on use

Relevant identified uses: For institutional or industrial use only.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

Supplier

Patterson Dentaire Canada Inc.
1205 boul Henri-Bourassa West
Montreal (Québec) H3M 3E6
+1 514-745-4040

Emergency telephone number:

Canada

CHEMTREC

Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)

Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

SECTION 2: Hazard identification

GHS classification:

Flammable liquids, category 2

Eye irritation, category 2A

Specific target organ toxicity - single exposure, category 3, central nervous system

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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PATTERSON 70% ISOPROPYL ALCOHOL 500 ML

Precautionary statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P264 Wash hands and eyes thoroughly after handling.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P370+P378 In case of fire: Use agents recommended in Section 5 to extinguish.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists get medical advice/attention
- P312 Call a POISON CENTER/doctor/physician if you feel unwell.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P403+P235 Store in a well ventilated place. Keep cool.
- P405 Store locked up.
- P403+P233 Store in a well ventilated place. Keep container tightly closed.
- P501 Dispose of contents and container as instructed in Section 13.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 67-63-0	Propan-2-ol	70

Additional Information: None

SECTION 4: First-aid measures

Description of first-aid measures

General notes:

Not determined or not available.

After inhalation:

- Loosen clothing as necessary and position individual in a comfortable position
- Maintain an unobstructed airway
- Get medical advice/attention if you feel unwell

After skin contact:

- Rinse affected area with soap and water
- If symptoms develop or persist, seek medical attention

After eye contact:

- Rinse/flush exposed eye(s) gently using water for 15-20 minutes
- If symptoms develop or persist, seek medical attention
- Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids

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open
Remove contact lenses, if present and easy to do so
Continue rinsing for 15-20 minutes
Get medical advice if eye irritation persists

After ingestion:

Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not available.

Delayed symptoms and effects:

Not determined or not available.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not available.

Notes for the doctor:

Not determined or not available.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors
Vapors can flow to distant ignition sources and flashback
Liquid is volatile and may generate an explosive atmosphere
May form corrosive mixtures with water

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Shut off sources of ignition
Carbon monoxide and carbon dioxide may form upon combustion
Heating causes a rise in pressure, risk of bursting and combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation
Ensure air handling systems are operational
Wear protective eye wear, gloves and clothing
Beware of vapors accumulating to form explosive concentrations
Vapors can accumulate in low areas

Environmental precautions:

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According to Canadian Hazardous Products Regulations and WHMIS 2015

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Should not be released into the environment
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing
Use spark-proof tools and explosion-proof equipment
Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.
Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.
Take precautionary measures against electrostatic discharges.
Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.
Protect from freezing and physical damage.
Store in a cool, well-ventilated area.
Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Canada	Propan-2-ol	67-63-0	Alberta TWA 8-hr: 492 mg/m ³ (200 ppm); STEL 15-min: 984 mg/m ³ (400 ppm)
	Propan-2-ol	67-63-0	British Columbia TWA 8-hr: 200 ppm; STEL 15-min 400 ppm
	Propan-2-ol	67-63-0	Manitoba TLV-TWA 8-hr: 200 ppm; STEL 15-min 400 ppm
	Propan-2-ol	67-63-0	Ontario TWA 8-hr: 200 ppm; STEL 15-min: 400 ppm
	Propan-2-ol	67-63-0	Quebec TWA 8-hr: 983 mg/m ³ (400 ppm); STEL 15-min: 1,230 mg/m ³ (500 ppm)
	Propan-2-ol	67-63-0	Saskatchewan TWA 8-hr: 200 ppm; STEL 15-min: 400 ppm

Biological limit values:

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Substance	Identifier	Determinant	Sampling time	Permissible limits
Propan-2-ol	67-63-0	Acetone	End of shift at end of workweek.	40 mg/L

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance (physical state, color):	Clear, colorless liquid having a characteristic IPA odor
Odor:	Characteristic IPA odor
Odor threshold:	40 ppm
pH-value:	Not determined or not available.
Melting/Freezing point:	-26.7 °C
Boiling point/range:	82 -83 °C
Flash point:	21 °C (Tag Closed Cup)
Evaporation rate:	Not determined or not available.
Flammability (solid, gaseous):	Flammable liquids and vapor.
Explosion limit upper:	Not determined or not available.
Explosion limit lower:	Not determined or not available.
Vapor pressure:	Not determined or not available.

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Vapor density:	Not determined or not available.
Density:	Not determined or not available.
Relative density:	0.79 at 20 °C
Solubilities:	Complete water solubility.
Partition coefficient (n-octanol/water):	Completely miscible with water.
Auto/Self-ignition temperature:	399 °C
Decomposition temperature:	Not determined or not available.
Dynamic viscosity:	Not determined or not available.
Kinematic viscosity:	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Propan-2-ol	oral	LD50 - Rat - 5050 mg/kg
	dermal	LD50 - Rabbit - 12800 mg/kg

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Serious eye damage/irritation

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Assessment: Causes serious eye irritation

Product data:

No data available.

Substance data:

Name	Result
Propan-2-ol	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Propan-2-ol	Group 3 - Not classifiable as to its carcinogenicity to humans

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: May cause drowsiness or dizziness

Product data:

No data available.

Substance data:

Name	Result
Propan-2-ol	Specific Target Organ Toxicity, Single Exposure - May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

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Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

Skin: In normal use, does not cause irritation. However, sensitive individuals may develop minor skin irritation.

Eyes: Contact with the eyes and mucous membrane can cause severe irritation, redness and pain.

Inhalation: Inhalation of high concentration may cause nausea, headache and dizziness. May irritate the respiratory tract.

Ingestion: If ingest, undesirable effects are to be expected. It may cause nausea and vomiting.

Other information:

Chronic Exposure: Prolonged and repeated exposure by application on the skin may cause chronic skin irritation and dry skin.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Propan-2-ol	LC50 - Fathead minnows - 4200 mg/L - (96 h)
	LC50 - Daphnia magna - 1400 mg/L - (48 h)

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Propan-2-ol	Readily biodegradable in water.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

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SECTION 14: Transport information

Canadian Transportation of Dangerous Goods (TDG)

UN number	UN 1219
UN proper shipping name	ISOPROPANOL
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	UN 1219
UN proper shipping name	ISOPROPANOL
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN 1219
UN proper shipping name	ISOPROPANOL
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

Canada regulations

Domestic substances list (DSL):

67-63-0	Propan-2-ol	Listed
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Non-domestic substances list (NDSL): Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with the Canadian Hazardous Products Regulations and

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WHMIS 2015. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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End of Safety Data Sheet