

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:	(CH ₃) ₂ CHOH
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
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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 be 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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Revision date: 07.30.2020

PATTERSON 70% ISOPROPYL ALCOHOL 500 ML

SECTION 1: Identification

Product identifier

Product name: PATTERSON 70% ISOPROPYL ALCOHOL 500 ML

Product code: 70831503

Recommended use of the product and restriction on use

Relevant identified uses: For institutional or industrial use only.

Uses advised against: Any use other than that recommended above.

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

Manufacturer or supplier details

Manufacturer:

United States

Patterson Companies, Inc.

1031 Mendota Heights Road

St. Paul, MN 55120

1-800-328-5536

www.pattersoncompanies.com

Emergency telephone number:

United States

CHEMTREC

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

SECTION 2: Hazard(s) identification

GHS classification:

Eye irritation, category 2A

Flammable liquids, category 2

Specific target organ toxicity - single exposure, category 3, narcotic effects

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
P261 Avoid breathing fume/gas/mist/vapors/spray
P264 Wash skin thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves/protective clothing/eye protection/face protection
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
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 Call a POISON CENTER/doctor if you feel unwell
P370+P378 In case of fire: Use fire extinguishing methods described in Section 5 to extinguish
P403+P233 Store in a well-ventilated place. Keep container tightly closed
P403+P235 Store in a well-ventilated place. Keep cool
P405 Store locked up
P501 Dispose of contents/container in accordance with all local, regional, state and federal regulations.

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:

Show this Safety Data Sheet to the doctor in attendance.

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After eye contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse

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mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Product is highly flammable. Exposure to sources of ignition may cause physical injury.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Inhalation may have adverse effects on the central nervous system. Symptoms may include drowsiness, dizziness, headache, nausea and lowering of consciousness. Acute overexposure via inhalation may result in respiratory distress, confusion and unconsciousness.

Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

Immediate medical attention and special treatment

Specific treatment:

Skin/eye burns require immediate treatment.

Overexposure via inhalation requires urgent medical treatment.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards during fire-fighting:

Highly flammable liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation.

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 300 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Move containers from fire area if you can do it without risk. Use water spray/fog for cooling fire exposed containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so.

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PATTERSON 70% ISOPROPYL ALCOHOL 500 ML

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. A vapor-suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage

Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating and lighting equipment. Take action to prevent static discharges. Handle containers with caution. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

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	15-Minute STEL: 400 ppm
	Propan-2-ol	67-63-0	8-Hour TWA: 200 ppm
NIOSH	Propan-2-ol	67-63-0	IDLH: 2000 ppm
	Propan-2-ol	67-63-0	15-Minute STEL: 500 ppm (1,225 mg/m ³)
	Propan-2-ol	67-63-0	REL-TWA: 400 ppm (980 mg/m ³ - up to 10 hrs.)
OSHA	Propan-2-ol	67-63-0	8-Hour TWA-PEL: 400 ppm (OSHA PEL TWA 980 mg/m ³)
United States(California)	Propan-2-ol	67-63-0	8-Hour TWA-PEL: 980 mg/m ³ (400 ppm - Cal/OSHA)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Propan-2-ol	67-63-0	15-Minute STEL: 1225 mg/m ³ (500 ppm - Cal/OSHA)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal protection equipment

Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. 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. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear, colorless liquid
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 liquid and vapor.
Upper flammability/explosive limit	Not determined or not available.

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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)	Not determined or not available.
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:

Not reactive under recommended handling and storage conditions.

Chemical stability:

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources, static electricity and incompatible materials. Vapor accumulation in low or confined areas.

Incompatible materials:

Strong oxidizers, acetaldehyde, chlorine, ethylene oxide, acids, isocyanates

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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 Rabbit: 6410 mg/kg
	dermal	LD50 Rabbit: 12,800 mg/kg
	inhalation	LD50 Rabbit: 72.6 mg/L (4 H)

Skin corrosion/irritation

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

Product data:

No data available.

Substance data: No data available.

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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

National Toxicology Program (NTP):

Name	Classification
Propan-2-ol	Not Applicable

OSHA Carcinogens: Not applicable

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	May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

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.

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:

Inhalation, Ingestion, Skin contact, Eye contact.

Symptoms related to the physical, chemical and toxicological characteristics:

Refer to Section 4 of this SDS.

Other information:

No data available.

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: No data available.

Chronic (long-term) toxicity

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

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:

Name	Result
Propan-2-ol	Not expected to bioaccumulate (log Kow: 0.05).

Mobility in soil

Product data: No data available.

Substance data: No data available.

Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

Propan-2-ol	This substance is not PBT.
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vPvB assessment:

Propan-2-ol	This substance is not vPvB.
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Other adverse effects: No data available.

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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

Contaminated packages:


Not determined or not applicable.

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	1219
UN proper shipping name	Isopropanol Solution
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None
Passenger air/rail	5L
Cargo aircraft only	60L
Stowage category	B

International Maritime Dangerous Goods (IMDG)

UN number	1219
UN proper shipping name	ISOPROPANOL SOLUTION
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None
EMS number	F-E, S-D
Stowage category	B
Excepted quantities	E2
Limited quantity	1L

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

UN number	1219
UN proper shipping name	Isopropanol Solution
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None
ERG code	3L
Excepted quantities	E2
Passenger and cargo	5L
Cargo aircraft only	60L
Limited quantity	1L

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA): All ingredients are listed or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals:

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

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

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.

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PATTERSON 70% ISOPROPYL ALCOHOL 500 ML

NFPA: 2-3-0

HMIS: 2-3-0

Initial preparation date: 09.13.2018

Revision date: 07.30.2020

Revision Notes:

Revision Date	Notes
2020-07-30	Version 2

End of Safety Data Sheet

Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

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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: 70831503

Recommended use of the product and restriction on use

Relevant identified uses: For institutional or industrial use only.

Uses advised against: Any use other than that recommended above.

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

Manufacturer or supplier details

Manufacturer:

United States

Patterson Companies, Inc.

1031 Mendota Heights Road

St. Paul, MN 55120

1-800-328-5536

www.pattersoncompanies.com

Emergency telephone number:

United States

CHEMTREC

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

SECTION 2: Hazard identification

GHS classification:

Eye irritation, category 2A

Flammable liquids, category 2

Specific target organ toxicity - single exposure, category 3, narcotic effects

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

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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/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
P261 Avoid breathing fume/gas/mist/vapours/spray
P264 Wash skin thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P271 Use only outdoors or in a well-ventilated area
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
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
P312 Call a POISON CENTER/doctor if you feel unwell
P370+P378 In case of fire: Use fire extinguishing methods described in Section 5 to extinguish
P403+P235 Store in a well-ventilated place. Keep cool
P403+P233 Store in a well-ventilated place. Keep container tightly closed
P405 Store locked up
P501 Dispose of contents/container in accordance with all local, regional, state and federal regulations.

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:

Show this Safety Data Sheet to the doctor in attendance.

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

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After eye contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Product is highly flammable. Exposure to sources of ignition may cause physical injury.

Inhalation may have adverse effects on the central nervous system. Symptoms may include drowsiness, dizziness, headache, nausea and lowering of consciousness. Acute overexposure via inhalation may result in respiratory distress, confusion and unconsciousness.

Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

Immediate medical attention and special treatment

Specific treatment:

Skin/eye burns require immediate treatment.

Overexposure via inhalation requires urgent medical treatment.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards during fire-fighting:

Highly flammable liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation.

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 300 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions.

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Fight fire from a maximum distance. Move containers from fire area if you can do it without risk. Use water spray/fog for cooling fire exposed containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. A vapor-suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage

Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating and lighting equipment. Take action to prevent static discharges. Handle containers with caution. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

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Occupational Exposure limit values:

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

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal protection equipment

Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. 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. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance (physical state, color):	Clear, colorless liquid
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 liquid 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.
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):	Not determined or not available.
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:

Not reactive under recommended handling and storage conditions.

Chemical stability:

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources, static electricity and incompatible materials. Vapor accumulation in low or confined areas.

Incompatible materials:

Strong oxidizers, acetaldehyde, chlorine, ethylene oxide, acids, isocyanates.

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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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 Rabbit: 6410 mg/kg
	dermal	LD50 Rabbit: 12,800 mg/kg
	inhalation	LD50 Rabbit: 72.6 mg/L (4 H)

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

National Toxicology Program (NTP):

Name	Classification
Propan-2-ol	Not Applicable

Germ cell mutagenicity

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

Product data:

No data available.

Substance data: No data available.

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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	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:

Inhalation, Ingestion, Skin contact, Eye contact.

Symptoms related to the physical, chemical and toxicological characteristics:

Refer to Section 4 of this SDS.

Other information:

No data available.

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: No data available.

Chronic (long-term) toxicity

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

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.

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Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Propan-2-ol	Not expected to bioaccumulate (log Kow: 0.05).

Mobility in soil

Product data: No data available.

Substance data: No data available.

Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

Propan-2-ol	This substance is not PBT.
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vPvB assessment:

Propan-2-ol	This substance is not vPvB.
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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

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport information

Canadian Transportation of Dangerous Goods (TDG)

UN number	1219
UN proper shipping name	ISOPROPANOL SOLUTION
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None
Excepted quantities	E2
Passenger road and rail	5L
Limited quantity	1L

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International Maritime Dangerous Goods (IMDG)

UN number	1219
UN proper shipping name	ISOPROPANOL SOLUTION
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None
EMS number	F-E, S-D
Stowage category	B
Excepted quantities	E2
Limited quantity	1L

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

UN number	1219
UN proper shipping name	Isopropanol Solution
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None
ERG code	3L
Excepted quantities	E2
Passenger and cargo	5L
Cargo aircraft only	60L
Limited quantity	1L

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

Canada regulations

Domestic substances list (DSL): All ingredients are listed or exempt.

Non-domestic substances list (NDSL): None of the ingredients are listed.

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SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

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

Revision Date	Notes
2020-07-30	Version 2

End of Safety Data Sheet