

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078924316

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078924312 078924313

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

**Initial Preparation Date:** 06.18.2015

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**Revision date:** 03.01.2023

### Ivermax® (Ivermectin Topical Solution) Pour-On For Cattle

#### SECTION 1: Identification

##### Product Identifier

**Product Name:** Ivermax® (Ivermectin Topical Solution) Pour-On For Cattle

**Product code:** 15893311, 14563321, 21263876, 15703301

##### Recommended Use of the Product and Restriction on Use

**Relevant Identified Uses:** Veterinary Parasiticide

**Uses Advised Against:** Not determined or not applicable.

**Reasons Why Uses Advised Against:** Not determined or not applicable.

##### Manufacturer or Supplier Details

**Supplier:**

**United States**

Aspen Veterinary Resources Ltd

3155 W. Heartland Drive

Liberty, MO 64068

1-800-792-1238

##### Emergency Telephone Number:

**United States**

CHEMTREC

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

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

#### SECTION 2: Hazard(s) Identification

##### GHS Classification:

Eye irritation, category 2A

Flammable liquids, category 2

Reproductive toxicity, category 2

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

Specific target organ toxicity - repeated exposure, category 2

Acute toxicity (oral), category 3

##### Label elements

##### Hazard Pictograms:



**Signal Word:** Danger

##### Hazard statements:

H225 Highly flammable liquid and vapor

H319 Causes serious eye irritation

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H361 Suspected of damaging fertility or the unborn child

H336 May cause drowsiness or dizziness

H373 May cause damage to organs through prolonged or repeated exposure

H301 Toxic if swallowed

#### Precautionary Statements:

P264 Wash hands thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

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

P233 Keep container tightly closed

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

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P271 Use only outdoors or in a well-ventilated area

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P270 Do not eat, drink or smoke when using this product

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

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

P308+P313 IF exposed or concerned: Get medical advice/attention

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor

P321 Specific treatment (see supplemental first aid instructions on this label)

P330 Rinse mouth

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/container in accordance with local regulations.

**Hazards Not Otherwise Classified:** None

#### Supplemental label elements:

0 percent of the mixture consists of ingredient(s) of unknown acute oral toxicity

### SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 67-63-0	Propan-2-ol	70-90
CAS Number: 70288-86-7	Ivermectin	<15

#### Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR

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§1910.1200).

## SECTION 4: First Aid Measures

### Description of First Aid Measures

#### General Notes:

Show this Safety Data Sheet to the doctor in attendance. This product is toxic by one or more routes of exposure (inhalation, ingestion, skin contact). Take precautions to ensure your own safety before attempting rescue. Wear appropriate safety eyewear, gloves, protective clothing and respiratory protection to prevent exposure. See Section 8 of this SDS for personal protective equipment recommendations. Do not use the mouth to mouth method if victim has ingested or inhaled the product. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper device.

#### 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 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.

Acute oral exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

#### Delayed Symptoms and Effects:

Long term exposure may affect fertility. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior/fertility/ and pregnancy outcome. Long term exposure may also affect development of the unborn child. Symptoms include, but are not limited to: intrauterine growth retardation, pre-term birth, birth defects and postnatal death.

May cause damage to organs through prolonged or repeated exposure. Effects are dependent on exposure (dose, concentration, contact time).

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Symptoms of exposure may be delayed.

#### 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, CO<sub>2</sub>, 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.

### 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:

Toxic if swallowed. Do not touch damaged containers or spilled material unless wearing appropriate

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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.

Toxic if swallowed. 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 <sup>3</sup> )
	Propan-2-ol	67-63-0	REL-TWA: 400 ppm (980 mg/m <sup>3</sup> - up to 10 hrs.)
OSHA	Propan-2-ol	67-63-0	8-Hour TWA-PEL: 980 mg/m <sup>3</sup> (400 ppm)
United States(California)	Propan-2-ol	67-63-0	8-Hour TWA-PEL: 980 mg/m <sup>3</sup> (400 ppm)

#### Biological Limit Values:

Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
ACGIH	Propan-2-ol	67-63-0	Acetone	Urine	EOS/EOW	40 mg/L

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#### Information on Monitoring Procedures:

Not determined or not applicable.

#### Appropriate Engineering Controls:

Toxic if swallowed. 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 blue liquid
Odor	Characteristic odor of isopropyl alcohol
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	57°F (14°C)
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Flammable
Upper flammability/explosive limit	12.7%
Lower flammability/explosive limit	2%
Vapor pressure	Not determined or not available.
Vapor density	43.2 hPa @ 68°F
Density	2.1 kg/L
Relative density	0.7986
Solubilities	Slightly miscible in water

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Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
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

VOC	563.2 - 719.0 g/L (4.7 - 6.0 lbs/gal)
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### 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 oxidizing agents, acid anhydrides, Aluminum, halogenated compounds.

#### Hazardous Decomposition Products:

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

### SECTION 11: Toxicological Information

#### Acute Toxicity

##### Assessment:

Toxic if swallowed

**Product Data:** No data available.

##### Substance Data:

Name	Route	Result
Propan-2-ol	oral	LD50 Rat: 5840 mg/kg
	dermal	LD50 Rabbit: 12,800 mg/kg
	inhalation	LC50 Rat: 72.6 mg/L (4 hr - Vapor)
Ivermectin	oral	LD50 Rat: 10 mg/kg
	Dermal ATE	LD50 Rat: 300 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:



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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):** None of the ingredients are listed.

**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:**

Suspected of damaging fertility or the unborn child.

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Ivermectin	Suspected of damaging fertility or the unborn child.

#### 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:**

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May cause damage to organs through prolonged or repeated exposure.

#### Product Data:

No data available.

#### Substance Data:

Name	Result
Ivermectin	May cause damage to organs through prolonged or repeated exposure.

#### 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 and eye contact.

#### Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

See 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:

Name	Result
Propan-2-ol	Fish LC50 Pimephales promelas: 10,000 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: >10,000 mg/L (48 hr [immobilization])
Ivermectin	Fish LC50 Oncorhynchus mykiss: 0.003 mg/L (96 h)
	Aquatic Invertebrates EC50 Daphnia magna: 0.00059 mg/L (48 h)

#### Chronic (Long-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	Aquatic Invertebrates NOEC Daphnia magna: 141 mg/L (16 d [growth])

#### Persistence and Degradability

**Product Data:** No data available.

#### Substance Data:

Name	Result
Propan-2-ol	The substance has a BOD5/ThOD ratio of 0.50, and is therefore considered to be readily degradable.

#### Bioaccumulative Potential

**Product Data:** No data available.

**Substance Data:**

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Name	Result
Propan-2-ol	Bioaccumulation is not expected. BCF (aquatic species): 1.015 L/kg ww [QSAR]

#### Mobility in Soil

**Product Data:** No data available.

**Substance Data:**

Name	Result
Propan-2-ol	The substance is highly mobile in soil with a low potential for adsorption to soil and sediment. Koc at 20 °C: 3.478

#### 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

#### United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	1219
UN Proper Shipping Name	Isopropanol
UN Transport Hazard Class(es)	3 
Packing Group	II
Environmental Hazards	None
Special Precautions for User	None
Passenger Air/Rail	5 L
Cargo Aircraft Only	60 L
Stowage Category	B

#### International Maritime Dangerous Goods (IMDG)

UN Number	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	
EmS Number	F-E, S-D	
Stowage Category	B	
Excepted Quantities	E2	
Limited Quantity	1 L	

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

UN Number	1219	
UN Proper Shipping Name	Isopropanol	
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	5 L	
Cargo Aircraft Only	60 L	
Limited Quantity	1 L	

## SECTION 15: Regulatory Information

### United States Regulations

**Inventory Listing (TSCA):** All ingredients are listed-active 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.

**Additional information:** Not determined.

### 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

**Initial Preparation Date:** 06.18.2015

**Revision date:** 03.01.2023

#### Revision Notes:

Revision Date	Notes
2021-03-01	Version 2.
2023-02-23	Version 3; Changes to Section 14.

**End of Safety Data Sheet**