

## **SAFETY DATA SHEETS**

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

078924241

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

078924242

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 07.07.2015

Page 1 of 11

Revision date: 09.08.2021

### Chloradine Scrub 2% and Chloradine Scrub 4%

#### SECTION 1: Identification

##### Product Identifier

**Product Name:** Chloradine Scrub 2% and Chloradine Scrub 4%

**Product code:** 19976005, 10966005

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

**Relevant Identified Uses:** Antimicrobial skin cleanser

**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:

Serious eye damage, category 1

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

##### Label elements

##### Hazard Pictograms:



**Signal Word:** Danger

##### Hazard statements:

H318 Causes serious eye damage

H335 May cause respiratory irritation

##### Precautionary Statements:

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

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

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

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 07.07.2015

Page 2 of 11

Revision date: 09.08.2021

### Chloradine Scrub 2% and Chloradine Scrub 4%

present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER/doctor

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed

P405 Store locked up

P501 Dispose of contents/container in accordance with local regulations.

**Hazards Not Otherwise Classified:** None

### SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 7732-18-5	Water	>70
CAS Number: 67-63-0	Isopropyl Alcohol	4
CAS Number: 18472-51-0	Chlorhexidine gluconate	2-4
CAS Number: 25322-68-3	Polyethylene glycol	Trade secret
CAS Number: 1643-20-5	Lauramine Oxide	Trade secret
CAS Number: 504-63-2	1, 3 Propanediol	Trade secret

#### 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 §1910.1200).

### 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:

Immediately 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. Seek immediate medical attention, preferably from an ophthalmologist.

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 07.07.2015

Page 3 of 11

Revision date: 09.08.2021

### Chloradine Scrub 2% and Chloradine Scrub 4%

#### 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, tearing, corneal damage and loss of vision.

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract.

##### Delayed Symptoms and Effects:

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

#### Immediate Medical Attention and Special Treatment

##### Specific Treatment:

In case of eye contact, seek prompt medical attention while rinsing is continued.

If respiratory symptoms persist, seek medical attention.

##### Notes for the Doctor:

Treat symptomatically.

### SECTION 5: Firefighting Measures

#### Extinguishing Media

##### Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

##### Unsuitable Extinguishing Media:

Do not use water jet.

#### Specific Hazards During Fire-Fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

#### 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:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

### SECTION 6: Accidental Release Measures

#### Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. 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:

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 07.07.2015

Page 4 of 11

Revision date: 09.08.2021

### Chloradine Scrub 2% and Chloradine Scrub 4%

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container 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:

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. Do not get in eyes. Avoid contact with skin 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
WEEL	Polyethylene glycol	25322-68-3	8-Hour TWA: 10 mg/m <sup>3</sup>
ACGIH	Isopropyl Alcohol	67-63-0	15-Minute STEL: 400 ppm
	Isopropyl Alcohol	67-63-0	8-Hour TWA: 200 ppm
NIOSH	Isopropyl Alcohol	67-63-0	IDLH: 2000 ppm
	Isopropyl Alcohol	67-63-0	15-Minute STEL: 500 ppm (1,225 mg/m <sup>3</sup> )
	Isopropyl Alcohol	67-63-0	REL-TWA: 400 ppm (980 mg/m <sup>3</sup> - up to 10 hrs.)
OSHA	Isopropyl Alcohol	67-63-0	8-Hour TWA-PEL: 400 ppm (980 mg/m <sup>3</sup> )
	Isopropyl Alcohol	67-63-0	STEL: 500 ppm (1225 mg/m <sup>3</sup> )
United States(California)	Isopropyl Alcohol	67-63-0	8-Hour TWA-PEL: 980 mg/m <sup>3</sup> (400 ppm - Cal/OSHA)
	Isopropyl Alcohol	67-63-0	15-Minute STEL: 1225 mg/m <sup>3</sup> (500 ppm - Cal/OSHA)
	Isopropyl Alcohol	67-63-0	REL: 3200 ug/m <sup>3</sup> (Acute Inhalation)
	Isopropyl Alcohol	67-63-0	REL: 7000 ug/m <sup>3</sup> (Chronic Inhalation)

#### Biological Limit Values:

Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
ACGIH	Isopropyl Alcohol	67-63-0	Acetone	Urine	End of shift at end of work week	40 mg/L

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 07.07.2015

Page 5 of 11

Revision date: 09.08.2021

### Chloradine Scrub 2% and Chloradine Scrub 4%

#### 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:

Use safety glasses with side shields or goggles. Consider the use of a face shield for splash protection. 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Full body protection should be worn. 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	Green (2%) or pink (4%) liquid
Odor	Not determined or not available.
Odor threshold	Not determined or not available.
pH	5.0 - 7.0
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
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.

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 07.07.2015

Page 6 of 11

Revision date: 09.08.2021

### Chloradine Scrub 2% and Chloradine Scrub 4%

Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	1.00 - 1.01
Solubilities	Soluble in water
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.

### 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 and incompatible materials.

#### Incompatible Materials:

Do not clean with anionic detergents that will precipitate the chlorhexidine into a water insoluble residue.

#### 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
Chlorhexidine gluconate	oral	LD50 Rat: 2000 mg/kg
	dermal	LD50 Rabbit: >5000 mg/kg
Polyethylene glycol	dermal	LD50 Rat: >2000 mg/kg
	oral	LD50 Rat: >2000 mg/kg
Isopropyl Alcohol	oral	LD50 Rat: 5840 mg/kg
	dermal	LD50 Rabbit: 12,800 mg/kg
Lauramine Oxide	oral	LD50 Rat: 1064 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg
1, 3 Propanediol	inhalation	LC50 Rat: >5 mg/L (4 h, aerosol)
	dermal	LD50 Rat: >4200 mg/kg
	oral	LD50 Rat: 4773 mg/kg

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 07.07.2015

Page 7 of 11

Revision date: 09.08.2021

### Chloradine Scrub 2% and Chloradine Scrub 4%

#### Skin Corrosion/Irritation

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

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Lauramine Oxide	Causes skin irritation.

#### Serious Eye Damage/Irritation

**Assessment:**

Causes serious eye damage.

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Chlorhexidine gluconate	Causes serious eye damage.
Isopropyl Alcohol	Causes serious eye irritation.
Lauramine Oxide	Causes serious eye damage.

#### 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
Isopropyl Alcohol	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:** 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 respiratory irritation.



## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 07.07.2015

Page 8 of 11

Revision date: 09.08.2021

### Chloradine Scrub 2% and Chloradine Scrub 4%

#### Product Data:

No data available.

#### Substance Data:

Name	Result
Isopropyl Alcohol	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:

Eye contact, inhalation and ingestion.

#### 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
Chlorhexidine gluconate	Fish LC50 Danio rerio: 2.08 mg/L (96 hours)
	Aquatic Invertebrates EC50 Daphnia magna: 0.087 mg/L (48 hours)
	Aquatic Plants EC50 Freshwater algae: 0.081 mg/L
Polyethylene glycol	Fish LC50 Poecilia reticulata: > 100 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr)
	Aquatic Plants EC50 P. subcapitata: >100 mg/L (72 hr)
Lauramine Oxide	Aquatic Plants EC50 Pseudokirchneriella subcapitata: 0.07 mg/L (72 hours)
1, 3 Propanediol	Fish LC50 Freshwater fish: >9720 mg/L (96 hours)
	Aquatic Invertebrates EC50 Daphnia magna: 7417 mg/L (48 hours)
	Aquatic Plants EC50 Freshwater algae: >10000 mg/L (72 hours)

#### Chronic (Long-Term) Toxicity

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

**Product Data:** No data available.

#### Substance Data:

Name	Result
Chlorhexidine gluconate	Aquatic Invertebrates NOEC Daphnia magna: 0.02 mg/L
	Aquatic Plants EC10 Freshwater algae: 0.03 mg/L

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 07.07.2015

Page 9 of 11

Revision date: 09.08.2021

### Chloradine Scrub 2% and Chloradine Scrub 4%

Name	Result
Polyethylene glycol	Aquatic Invertebrates NOEC Daphnia magna: 17,475.27 mg/L (21 d)
Lauramine Oxide	Aquatic Invertebrates NOEC Daphnia magna: 0.07 mg/L (21 days)

#### Persistence and Degradability

**Product Data:** No data available.

**Substance Data:**

Name	Result
Polyethylene glycol	Readily biodegradable (74.85% degradation after 28 days).
Isopropyl Alcohol	Readily biodegradable in water.
Lauramine Oxide	Readily biodegradable (95% degradation in 28 days).
1, 3 Propanediol	Readily biodegradable in water (71% degradation in 28 days).

#### Bioaccumulative Potential

**Product Data:** No data available.

**Substance Data:**

Name	Result
Chlorhexidine gluconate	Substance is not expected to bioaccumulate (BCF: 1.77).
Polyethylene glycol	Not bioaccumulative in aquatic organisms (calculated BCF: 3.162 L/Kg ww).
Isopropyl Alcohol	Not expected to bioaccumulate (log Kow: 0.05).
Lauramine Oxide	Substance has low potential for bioaccumulation (log kow: <3).
1, 3 Propanediol	Substance has low potential for bioaccumulation (Log kow: -0.71).

#### Mobility in Soil

**Product Data:** No data available.

**Substance Data:**

Name	Result
Chlorhexidine gluconate	Koc at 20 °C: 72200
Polyethylene glycol	Log Koc: 1.857
1, 3 Propanediol	Koc at 20 °C: 0.337

#### 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:**

Polyethylene glycol	The substance is not PBT.
Isopropyl Alcohol	This substance is not PBT.
Lauramine Oxide	The substance is not PBT.
1, 3 Propanediol	The substance is not PBT.
Chlorhexidine gluconate	The substance is not PBT.

**vPvB assessment:**

Polyethylene glycol	The substance is not vPvB.
Isopropyl Alcohol	This substance is not vPvB.
Lauramine Oxide	The substance is not vPvB.
1, 3 Propanediol	The substance is not vPvB.

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 07.07.2015

Page 10 of 11

Revision date: 09.08.2021

### Chloradine Scrub 2% and Chloradine Scrub 4%

Chlorhexidine gluconate

The substance is not vPvB.

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	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

#### International Maritime Dangerous Goods (IMDG)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

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

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

### 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:

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 07.07.2015

Page 11 of 11

Revision date: 09.08.2021

### Chloradine Scrub 2% and Chloradine Scrub 4%

67-63-0	Isopropyl Alcohol	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	Isopropyl Alcohol	Listed
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New Jersey Right to Know:

67-63-0	Isopropyl Alcohol	Listed
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New York Right to Know:

67-63-0	Isopropyl Alcohol	Listed
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Pennsylvania Right to Know:

67-63-0	Isopropyl Alcohol	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: 3-0-0

HMIS: 3-0-0

Initial Preparation Date: 07.07.2015

Revision date: 09.08.2021

End of Safety Data Sheet