

SAFETY DATA SHEETS

This SDS packet was issued with item:

076659049

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

076659056

Document Detail

Type: 0560-SDS
Document No.: 0560-0021131MS[6]
Title: Purevac SC SDS
Comment:
Status: CURRENT
Effective Date: 11-Mar-2024

Approval

Owner Role	Sign-off By	Sign-off Date	
0060-Research and Development DPD Research and Development	Thomas Simonton	05-Mar-2024 6:49 pm	GMT
0060-Document Owner DPD Document Owner	Adam Coffman	05-Mar-2024 3:54 pm	GMT
0060-Regulatory DPD Regulatory	Yassmin Abouellail	11-Mar-2024 11:47 am	GMT
0060-Head of QA/RA DPD Head of Quality Assurance and Regulatory Affairs	Jonathan Coleman	06-Mar-2024 10:40 pm	GMT
0060-Document Control DPD Document Control	Robin Lehr	11-Mar-2024 12:17 pm	GMT

Safety Data Sheet

Safety Data Sheet conforms to Regulation (EC) 1907/2006,
Regulation (EC) 1272/2008 and Regulation (EC) 2020/878,
US 29CFR1910.1200, Canada Hazardous Products
Regulation

Date Issued: 29 September 2010
Document Number: 0021131MS
Date Revised: 16 February 2024
Revision Number: 6

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Trade Name (as labeled): **Purevac® SC**

Part/Item Number: **21135, 21132**

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Recommended Use: Evacuation system cleaner

Restrictions on Use: For professional use only

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier Name: Sultan Healthcare

Manufacturer/Supplier Address: 1301 Smile Way
York, PA 17404

Manufacturer/Supplier Telephone Number: 1-201-871-1232 or 800-637-8582

(Product Information)
Email address: customer.service@sultanhc.com

1.4 Emergency Telephone Number:

Emergency Contact Telephone Number: 800-535-5053 (INFOTRAC)
1-352-323-3500
(Outside the United States – Call Collect)

2. HAZARD(s) IDENTIFICATION

2.1 Classification of the Substance or Mixture:

GHS Classification:		
Health	Environmental	Physical
Eye Damage Category 1 (H318)	Hazardous to the Aquatic Environment – Long-Term Hazard Category 3 (H412)	Flammable Liquid Category 3 (H225)

OSHA Specific Hazards: None

2.2 Label Elements:



Signal Word: Danger

Contains: Alcohols, C8-C10, ethoxylated propoxylated

Hazard Phrases	Precautionary Phrases
H225 Highly flammable liquid and vapor. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.	P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment P241 Use explosion-proof electrical, ventilating and lighting equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash thoroughly after handling. P273 Avoid release to the environment. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor. P280 Wear protective gloves, and eye protection. P370 + P378 In case of fire: Use carbon dioxide, alcohol-resistant foam, dry chemical, and water spray to extinguish. P403 + P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.2 Mixture:

Hazardous Components	C.A.S. #	EINECS # / REACH Registration #	Classification	WT %
2-Propanol	67-63-0	200-661-7 /	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336)	5-10
1,3-Triazine-2,4,6-(1H, 3H, 5H) – trithione, sodium salt	17766-26-6	241-749-5 /	Acute Tox 4 (H302) LD50 1182 mg/kg Eye Irrit 2 (H319)	2-5
Alcohols, C8-C10, ethoxylated propoxylated	68603-25-8	614-633-0 /	Acute Tox 4 (H302) LD50 616 mg/kg Eye Dam 1 (H318) Aqua Chron. 2 (H411)	2-5

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS Classifications.

4. FIRST-AID MEASURES

4.1 Description of First Aid Measures:	
Routes of Exposure	First Aid Instructions
Eye	Immediately flush eyes with large quantities of water for at least 20 minutes, holding the eyelids apart. Get immediate medical attention.
Skin	Wash skin thoroughly with soap and water. Get medical attention if irritation develops or persists.
Inhalation	If irritation develops, remove to fresh air. Get medical attention if symptoms persist.
Ingestion	Rinse out mouth with water. Do not induce vomiting unless directed to do so by a medical professional. Never give anything by mouth to an unconscious or drowsy person. Seek medical attention if large amounts are ingested.
4.2 Most Important Symptoms and Effects, Both Acute and Delayed:	
Causes severe eye irritation and possible damage. Inhalation of vapors or mists may cause upper respiratory tract irritation.	
4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:	
Immediate medical attention may be required for eye contact.	

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	Use water fog or spray, dry powder, carbon dioxide or alcohol-resistant foam
Fire Fighting Procedures:	Cool fire exposed containers and structures with water.
5.2 Special Hazards Arising from the Substance or Mixture:	
Flammable liquid and vapor. Vapors may collect in confined areas presenting a fire and explosion hazard. Thermal decomposition may produce carbon oxides, aldehydes, alcohols, ethers, and organic acids.	
5.3 Advice for Fire-Fighters:	
Fire Fighting Procedures/Precautions for Fire Fighters:	Cool fire exposed containers with water spray. Firefighters should wear full emergency equipment and approved positive pressure self-containing breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:
Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Ventilate the area. Avoid contact with skin, eyes, or clothing. Avoid breathing vapors, mist, or spray. Wear appropriate protective clothing as described in Section 8.
6.2 Environmental Precautions:
Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.
6.3 Methods and Material for Containment and Cleaning up:
Collect using an inert non-combustible absorbent material and place in appropriate containers for disposal. Rinse spill area with water. Use non-sparking tools and equipment.
6.4 Reference to Other Sections:
Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Keep away from heat, sparks, flames, and other sources of ignition. Use only with adequate ventilation. Avoid breathing vapors. Avoid contact with the eyes, skin, and clothing. Do not eat, drink, or smoke while using this product. Wash thoroughly after handling. Wear protective clothing and equipment as described in Section 8.

Empty containers retain product residues can be hazardous. Follow all SDS precautions when handling empty containers.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool, dry, well ventilated area away from incompatible materials. Protect from physical damage.

7.3 Specific End Use (s): For professional use only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Occupational Exposure Limits:

2-Propanol	200 ppm TWA, 400 ppm STEL ACGIH TLV 400 ppm TWA OSHA PEL 400 ppm TWA, 500 ppm STEL UK OEL 400 ppm STEL France OEL 200 ppm TWA, 400 ppm STEL DFG MAK 200 ppm TWA, 400 ppm STEL Belgium OEL
1,3-Triazine-2,4,6-(1H, 3H, 5H) – trithione, sodium salt	None Established
Alcohols, C8-C10, ethoxylated propoxylated	None Established

Biological Exposure Limits: 2-Propanol – End of shift at end of work week. Acetone in urine 40 mg/L.

8.2 Exposure Controls:

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Individual Protection Measures (PPE)

Specific Eye/face Protection: Wear chemical goggles.

Specific Skin Protection: Impervious gloves recommended to avoid skin contact. Consult glove supplier for thickness and breakthrough times.

Specific Respiratory Protection: None should be needed under normal use. If exposure limits are exceeded an approved respirator or supplied air respirator appropriate should be used. Respirator selection and use should be based on contaminant type, form, and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Specific Thermal Hazards: Not applicable

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance:	Light green liquid	Explosive limits:	LEL: 2.0 % (2-Propanol) UEL: 12.7 % (2-Propanol)
Color:	Light green	Physical State:	Liquid
Odor:	Slightly Citric	Vapor pressure (mmHg):	45.5 @ 25°C (isopropanol)
Odor threshold:	Not determined	Relative Vapor Pressure @20°C: (Air = 1)	>1
pH:	pH at Concentrate: 9 pH at Recommended Dilution: ~7	Density (Relative):	Not determined
Melting/freezing point:	Not available	Solubility:	Miscible
Initial boiling point and range:	Not available	Partition coefficient: n-octanol/water:	Not determined
Flash point:	105°F / 40.6°C	Auto-ignition temperature:	Not determined
Evaporation rate: (n-BuAc = 1)	Not determined	Decomposition temperature:	Not determined
Flammability:	Flammable liquid	Kinematic Viscosity	Not determined

9.2.1 Properties, Safety Characteristics and Test Results for Physical Hazards: None determined.

9.2.2 Other Safety Characteristics: None determined.

10. STABILITY AND REACTIVITY

10.1 Reactivity: Will not polymerize.

10.2 Chemical Stability: Stable under normal use conditions.

10.3 Possibility of Hazardous Reactions: None known.

10.4 Conditions to Avoid: Avoid heat, sparks, flames, and all other sources of ignition.

10.5 Incompatible materials: Avoid strong oxidizing agents, strong bases, and strong acids.

10.6 Hazardous Decomposition Products: Thermal decomposition may produce carbon oxides, aldehydes, alcohols, ethers, and organic acids.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects: <u>Eyes:</u> Causes severe irritation and possible eye damage with redness, pain and tearing. <u>Skin:</u> May cause mild skin irritation on prolonged contact. <u>Ingestion:</u> Swallowing may cause gastrointestinal irritation. May cause gastrointestinal irritation and central nervous system depression. Symptoms of central nervous system depression include headache, dizziness, drowsiness, nausea, and unconsciousness. <u>Inhalation:</u> Inhalation of mists may cause mucous membrane and upper respiratory tract irritation. Inhalation of high concentrations of 2-Propanol vapors may cause headache and dizziness.
Chronic Health Effects: None known.
Eye Irritation / Damage: Alcohols, C8-C10, ethoxylated propoxylated cause severe eye irritation and possible eye damage.
Skin Irritation / Corrosivity: Based on available data, the classification criteria are not met.
Sensitization: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met. None of the components are listed as a carcinogen by IARC, NTP, OSHA, ACGIH or the EU CLP. There is inadequate evidence of carcinogenicity of isopropyl alcohol in human and animals.
Mutagenicity: Based on available data, the classification criteria are not met. Isopropyl Alcohol: In an in-vivo study, isopropanol did not induce micronuclei in bone marrow of mice. Studies conducted in mammalian cells in-vitro, it did not induce sister chromatic exchanges or gene mutations.
Aspiration Hazard: Based on available data, the classification criteria are not met.
Acute Toxicity Data: ATE Product: Oral LD50: >5000 mg/kg. 2-Propanol: Oral rat LD50- 5045 mg/kg; Inhalation rat LC50 – 16000 ppm /8hr; Skin rabbit LD50- 12800 mg/kg 1,3-Triazine-2,4,6-(1H, 3H, 5H) –trithione, sodium salt: Oral rat LD50- 1182 mg/kg; LD50 skin rabbit >2,000 mg/kg Alcohols, C8-C10, ethoxylated propoxylated: Oral rat LD50 616 mg/kg, Skin rabbit 5,660 mg/kg, Inhalation rat LC50 >8 mg/L/1 hr.
Reproductive Toxicity Data: Based on available data, the classification criteria are not met. Isopropanol: In a rat developmental study, female Sprague-Dawley rats were dosed by oral gavage with either 0, 400, 800, or 1,200 mg/kg isopropanol during gestation days 6 to 15. Mortality was observed in the mid- (4%) and high-dose (8%) animals and reduced maternal gestational weight gain on gestational days 0 to 20 associated with significantly reduced gravid uterine weights were noted in the high-dose animals. Fetal body weights were reduced at 800 and 1,200 mg/kg. No adverse maternal or developmental effects at 400 mg/kg. No teratogenic effects were noted at any dose tested.
Specific Target Organ Toxicity Single Exposure (STOT-SE): Based on available data, the classification criteria are not met. Isopropanol: Inhalation of 400 ppm (1,000 mg/cu m) isopropanol by guinea pigs for 24 hours reduced the ciliary activity in the nasal mucosa, but recovery was complete within two weeks. Higher concentrations produced damage that required longer to repair.
Specific Target Organ Toxicity Repeated Exposure (STOT-RE): Based on available data, the classification criteria are not met. Isopropanol: A 13 week inhalation study with rats found effects of narcosis at 5,000 ppm. These effects were reversible at the cessation of exposure. A 73 week chronic study found male reproductive effects at 2,500 and 5,000 ppm and liver effects at 2,500 ppm.

11.2 Information on Other Hazards

11.2.1 Endocrine Disrupting Properties: None known.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

2-Propanol: 96 hr. LC50 Fathead minnow – 9640 mg/L; 24 hr. EC50 Water flea- 9714 mg/L

1,3-Triazine-2,4,6-(1H, 3H, 5H) –trithione, sodium salt: 96 hr. LC50 Oryzias latipes 13.3 mg/L.

24 hr. EC50 daphnia magna 1612.5 mg/L

Alcohols, C8-C10, ethoxylated propoxylated: 96 hr. LC50 pimephales promelas (fathead minnow) 13.3 mg/L.

48 hr. EC50 daphnia magna 12.3 mg/L; 16 hr. IC50 bacteria 220-770 mg/L

12.2 Persistence and Degradability: 2-Propanol is readily biodegradable (95% after 21 days).

Alcohols, C8-C10, ethoxylated propoxylated is readily biodegradable (70% in 28 days).

12.3 Bio-accumulative Potential: No data available.

12.4 Mobility in Soil: No data available

12.5 Results of PBT and vPvB Assessment: Not required

12.6 Endocrine disrupting Properties: None known.

12.7 Other Adverse Effects: None known

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Regulations: Dispose in accordance with local and national environmental regulations

Properties (Physical/Chemical) Affecting Disposal: None known.

Waste Treatment Recommendations: Dispose in accordance with national and local regulations

14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
DOT	UN1987	Alcohols, n.o.s. (Isopropanol)	3	PG III	No
ADR/RID	UN1987	Alcohols, n.o.s. (Isopropanol)	3	PG III	No
IMDG	UN1987	Alcohols, n.o.s. (Isopropanol)	3	PG III	No
IATA/ICAO	UN1987	Alcohols, n.o.s. (Isopropanol)	3	PG III	No

Note: Not regulated for transport in the United States. See aqueous alcohol exemption at 49CFR 173.150 (e)

14.6 Special precautions for user: Flammable Liquid

14.7 Transport in Bulk According to IMO Instruments: Not applicable – product is transported only in packaged form.

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This product is not subject to release reporting under CERCLA. Many other states have more stringent regulations. Report all spills in accordance with local, state, and federal regulations.

Toxic Substances Control Act (TSCA): This product is a medical device and not subject to chemical notification requirements.

Clean Water Act (CWA): This material is not regulated under the Clean Water Act

Clean Air Act (CAA): This material is not regulated under the Clean Air Act

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312 (40 CFR 370) Hazard Categories: See OSHA Hazard Classification in Section 2.

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372): None

State Regulations

California:



WARNING: This product can expose you to chemicals including 1,4-dioxane and Propylene Oxide which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

International Regulations

EU REACH: The substances in this product comply with the EU REACH regulation as applicable.

16. OTHER INFORMATION

Full text of Classification abbreviations used in Section 2 and 3:

Flam. Liq. 2 - Flammable liquid category 2

Acute Tox 4 - Acute Toxicity Category 4

Eye Dam 1 - Eye Damage Category 1

Eye Irrit 2 - Eye irritation Category 2

STOT SE 3 - Specific Target Organ Toxicity category 3

Aqua Chron. 2 - Hazardous to the Aquatic Environment – Long-Term Hazard Category 2

H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H411 Toxic to aquatic life with long lasting effects.

Supersedes: 01 March 2021

Date Updated: 16 February 2024

Revision Summary: Three-year update. Minor change to Section 14.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, ECHA REACH Registration Website,

Country websites for occupational exposure limits.