



PURESAN (PTY) LTD

Safety Data Sheet
SDS Puresan Hand Sanitiser

SECTION 1: Identification

1.1 Product identifier

Product name	SDS Puresan Hand Sanitiser
Brand	Puresan

1.2 Other means of identification

PURESAN Hand Sanitiser, formulated to the WHO (World Health Organisation) recommendation to contain COVID-19

1.3 Recommended use of the chemical and restrictions on use

Hand Sanitizer - Formulated according to WHO (World Health Organisation) recommendations for COVID-19 containment

1.4 Supplier's details

Name	Puresan (Pty) Ltd
Address	Gate 1, Unit 2 11 Engwena Road 1609 Sebenza Edenvale South Africa
Telephone	+27 (0) 11 609 0314
email	john.penrose@puresan.net

1.5 Emergency phone number(s) +27 (0) 82 652 0996

SECTION 2: Hazard identification

General hazard statement

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1B
- Corrosive to metals, Cat. 1
- Oxidizing liquids, Cat. 2
- Specific target organ toxicity (single exposure), Cat. 3
- Flammable solids, Cat. 1
- Substances and mixtures which, in contact with water, emit flammable gases, Cat. 2

SDS Puresan Hand Sanitiser

2.2 GHS label elements, including precautionary statements Pictogram



1. Flame;

Signal word

Danger

Hazard statement(s)

H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P220	Keep/Store away from clothing and combustible materials.
P221	Take any precaution to avoid mixing with combustibles
P234	Keep only in original container.
P260	Do not breathe fume/gas/mist/vapors/spray.
P261	Avoid breathing fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 doctor
P312	Call a doctor if you feel unwell.
P321	Specific treatment (see Section 8 on this label)..
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material-damage.
P402+P404	Store in a dry place. Store in a closed container.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in a corrosive resistant container with a resistant inner liner.
P501	Dispose of contents according to local legislation requirements

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Component	Concentration
Isopropanol (CAS no.: 67-63-0; EC no.: 414-810-0; Index no.: 607-403-00-6)	75 % (weight)
CLASSIFICATIONS: Flammable liquids, Cat. 2; Eye damage/irritation, Cat. 2A; Specific target organ toxicity (single exposure), Cat. 3. HAZARDS: H225 - Highly flammable liquid and vapor; H319 - Causes serious eye irritation; H335 - May cause respiratory irritation; H336 - May cause drowsiness or dizziness.	
Water (CAS no.: 7732-18-5; EC no.: 231-791-2)	23.43 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Glycerol (CAS no.: 56-81-5)	1.45 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Hydrogen peroxide (CAS no.: 7722-84-1; EC no.: 231-765-0; Index no.: 008-003-00-9)	0.125 % (weight)
CLASSIFICATIONS: Oxidizing liquids, Cat. 1; Skin corrosion/irritation, Cat. 1A; Acute toxicity, inhalation, Cat. 4; Acute toxicity, oral, Cat. 4. HAZARDS: H271 - May cause fire or explosion; strong oxidizer; H314 - Causes severe skin burns and eye damage.	

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Call a poison control center or doctor immediately for treatment advice. Show this safety data sheet to the doctor in attendance.
If inhaled	Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	Rinse cautiously with water for several minutes. Continue rinsing. Obtain medical attention without delay, preferably from an ophthalmologist.
If swallowed	Do not induce vomiting. Do not give anything to drink. Obtain medical attention immediately.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.3 Special protective actions for fire-fighters

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Further information

Cool container with spray water from a safe distance. Prevent fire-fighting water from entering surface water or groundwater.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For personal protection see section 8. Avoid substance contact. Do not inhale vapours/aerosols. Ensure supply of fresh air in confined spaces.

6.2 Environmental precautions

Do not let product enter drains.
See Section 12 for ecological Information.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not swallow. Do not breathe mist, vapors, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. See Section 8 for information on Personal Protective Equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS: 56-81-5

Glycerin (mist)

Cal/OSHA: PNOR PEL inhalation; NIOSH: See Appendix D REL inhalation

Glycerin (mist), Respirable fraction

Cal/OSHA: 5 mg/m³, PNOR PEL inhalation; OSHA: 5 mg/m³ PEL inhalation

Glycerin (mist), Total dust

Cal/OSHA: 10 mg/m³, PNOR PEL inhalation; OSHA: 15 mg/m³ PEL inhalation

CAS: 67-63-0

Isopropyl alcohol

ACGIH (USA): 200 ppm, (ST) 400 ppm TLV[®] inhalation; Cal/OSHA: 400 ppm, (ST) 500 ppm PEL inhalation; NIOSH: 400 ppm, (ST) 500 ppm REL inhalation; OSHA: 400 ppm PEL inhalation; 980 mg/m³ PEL inhalation

CAS: 7722-84-1

Hydrogen peroxide

ACGIH (USA): 1 ppm TLV[®] inhalation; Cal/OSHA (USA): 1 ppm PEL inhalation; NIOSH (USA): 1 ppm REL inhalation; OSHA (USA): 1 ppm PEL inhalation; 1.4 mg/m³ PEL inhalation

8.2 Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Safety glasses are recommended if splash hazard.

Skin protection

Wear protective gloves. Consult manufacturer specifications for further information.

Body protection

Wear protective clothing. Clothing with full length sleeves and pants should be worn. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SDS Puresan Hand Sanitiser

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

No data available.

Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Clear liquid
Odor	Alcohol
Odor threshold	No data available.
pH	No data available
Melting point/freezing point	-89 deg. C
Initial boiling point and boiling range	82.5 deg. C
Flash point	41 deg C
Evaporation rate	No data available.
Flammability (solid, gas)	between 2 and 12.7% in vapor
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available
Vapor density	No data available.
Relative density	1g/ml at 25C
Solubility(ies)	100% @ 20 deg. C
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	399 deg C
Decomposition temperature	No data available.
Viscosity	2.86 cP at 15 deg. C; 1.96 cP at 25 deg. C; 1.77 at 30 deg. C
Explosive properties	No data available
Oxidizing properties	No data available.

Other safety information

No data available.

SECTION 10: Stability and reactivity

10.2 Chemical stability

Stable under normal storage conditions.

10.4 Conditions to avoid

Avoid high temperature: 100 deg C

10.5 Incompatible materials

Isopropanol: Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids

Hydrogen peroxide: Zinc, Powdered metals, Iron, Copper, Nickel, Brass, Iron and iron salts.

10.6 Hazardous decomposition products

Isopropanol: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

SDS Puresan Hand Sanitiser

Hydrogen peroxide: Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Skin corrosion/irritation

Based on available data, classification data are not met

Serious eye damage/irritation

Causes eye irritation.

Respiratory or skin sensitization

Based on available data, classification data are not met

Germ cell mutagenicity

Based on available data, classification data are not met

Carcinogenicity

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

Based on available data, classification data are not met

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

Glycerol: *TOXICITY:

typ. dose mode specie amount units other

TDLo orl hmn 1428 mg/kg

LD50 orl rat 12600 mg/kg

LD50 ipr rat 4420 mg/kg

LD50 scu rat 100 mg/kg

LD50 ivn rat 5566 mg/kg

LD50 orl mus 4090 mg/kg

LD50 ipr mus 8700 mg/kg

LD50 scu mus 91 mg/kg

LD50 ivn mus 4250 mg/kg

LD50 ivn rbt 53 gm/kg

LD50 orl gpg 7750 mg/kg

*AQTX/TLM96: over 1000 ppm

*SAX TOXICITY EVALUATION:

THR: Poison by subcutaneous route. Mildly toxic by ingestion. Human systemic effects by ingestion. Experimental reproductive effects. Human mutagenic data. A skin and eye irritant. In the form of mist it is a nuisance particulate and inhalation irritant.

*CARCINOGENICITY: Not available

*MUTATION DATA:

test lowest dose | test lowest dose

dni-hmn:lym 200 mmol/L | cyt-rat-oral 1 gm/kg

*TERATOGENICITY:

Reproductive Effects:

TDLo: orl-rat 100 mg/kg (1D male)

TDLo: itt-rat 280 mg/kg (2D male)

TDLo: itt-rat 1600 mg/kg (1D male)

SDS Puresan Hand Sanitiser

*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z
Transitional Limit: PEL-TWA 15 mg/m³ (total dust) [610]
Transitional Limit: PEL-TWA 5 mg/m³ (respirable fraction) [610]
Final Limit: PEL-TWA 10 mg/m³ (total dust) [610]
Final Limit: PEL-TWA 5 mg/m³ (respirable fraction) [610]
ACGIH: TLV-TWA 10 mg/m³ (for total dust containing no asbestos and less than 1% crystalline silica) [610]
NIOSH Criteria Document: None
NFPA Hazard Rating: Health (H): 1
Flammability (F): 1
Reactivity (R): 0
H1: Materials only slightly hazardous to health (see NFPA for details).
F1: Materials that must be preheated before ignition can occur (see NFPA for details).
R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

*OTHER TOXICITY DATA:

Skin and Eye Irritation Data:
skn-rbt 500 mg/24H MLD
eye-rbt 126 mg MLD
eye-rbt 500 mg/24H MLD
Review: Toxicology Review
Status: EPA TSCA Chemical Inventory, 1986
EPA TSCA Test Submission (TSCATS) Data Base, January 1989
NIOSH Analytical Methods: see Nuisance Dust, Total 0500; Nuisance Dust Respirable, 0600
Meets criteria for proposed OSHA Medical Records Rule

SECTION 12: Ecological information

Toxicity

Micro Organisms: Bacterial LC₅₀ 16h 50 mg/L
Aquatic Invertebrates: Daphnia LC₅₀ 48h 11.5 mg/L
Confidence Limits: 9.4 - 14.2 mg/L
Fish: Blue Gill LC₅₀ 96h 22 mg/L

Persistence and degradability

BOD (% Oxygen Consumption)
Day 5 32%
Day 10 68%
Day 15 86%

Bioaccumulative potential

Bioaccumulation is unlikely.

Mobility in soil

Will likely be mobile in the environment due to its water solubility

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

ThOD (Measured) 1.00

SDS Puresan Hand Sanitiser

SECTION 13: Disposal considerations

Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging

Dispose of as unused product.

Waste treatment

Dispose of contents in accordance with local and national regulations.

SECTION 14: Transport information

Land transport (ADR/RID):	UN 1219.
Sea transport (IMDG):	UN1219
Air transport (ICAO-IATA/DGR):	UN1219 Packaging group II Flammable in the presence of a flame.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts Right To Know Components

Hydrogen peroxide

CAS number: 7722-84-1

New Jersey Right To Know Components

Isopropyl alcohol

CAS number: 67-63-0

Common name: **GLYCERIN**

CAS number: 56-81-5

Water

CAS-number: 7732-18-5

Hydrogen peroxide

CAS number: 7722-84-1

Pennsylvania Right To Know Components

Isopropyl alcohol

CAS number: 67-63-0

Chemical name: **1,2,3-Propanetriol**

CAS number: 56-81-5

Hydrogen peroxide

CAS number: 7722-84-1

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

The following components are subject to reporting levels established by SARA Title III, Section 302:

SDS Puresan Hand Sanitiser

Hydrogen peroxide
CAS-Number: 7722-84-1

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

No SARA Hazards

Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Isopropyl alcohol
CAS number: 67-63-0

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

NFPA Rating

Health hazard	1
Fire hazard	3
Reactivity hazard	0
Special hazard	

SECTION 16: Other information

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Puresan (Pty) Ltd be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Puresan (Pty) Ltd has been advised of the possibility of such damages.

16.2 Preparation information

Amanda Colling 2020/03/13