

Issue Date: 03/03/2021
Last Revision Date: N/A
Superseded Date: N/A
Version Number: 01

SAFETY DATA SHEET

Product Code: PURELL1LBG

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SECTION 1 PRODUCT IDENTIFICATION

Product Name PURELL® Instant Hand Sanitiser

Recommended use of the chemical and restrictions on use

Recommended use Hand Sanitiser

Restrictions on use This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

SECTION 2 HAZARD IDENTIFICATION

GHS Classification Flammable liquids **Category 3**
Serious eye damage/eye irritation **Category 2A**

GHS Label element

Hazard pictograms



Flame



Exclamation Mark

Signal word Warning

Hazard statements H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements

Prevention P210 Keep away from heat/sparks/open flames/hot surfaces
No smoking.
P233 Keep container tightly closed.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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.

Storage P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal P501 Dispose of contents/ container to an approved waste disposal plant.

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Other hazards which do not result in classification

Vapours may form explosive mixture with air.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Mixture

Hazardous components

Chemical Name	CAS-No.
Ethanol	64-17-5
Propan-2-ol	67-63-0

SECTION 4 FIRST AID MEASURES

General advice

In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

If inhaled

If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In case of skin contact

Wash with water and soap as a precaution. Get medical attention if symptoms occur.

In case of eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.

If swallowed

If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed

Causes serious eye irritation.

Protection of first-aiders

First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Notes to physician

Treat symptomatically and supportively

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO₂)

Unsuitable extinguishing media

High volume water jet

Specific hazards during fire-fighting

Do not use a solid water stream as it may scatter and spread fire.
Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.

Hazardous combustion products

Carbon oxides

Specific extinguishing methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

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for firefighters**

In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Hazchem Code

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SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions,
protective equipment and
emergency procedures**

Remove all sources of ignition.
Use personal protective equipment.
Follow safe handling advice

Environmental precautions

Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

**Methods and materials for
containment and cleaning up**

Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapours/mists with a water spray jet.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7 HANDLING AND STORAGE

Technical measures

See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation

Use with local exhaust ventilation.
Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling

avoid inhalation of vapour or mist. Do not swallow.
Do not get in eyes.
Avoid prolonged or repeated contact with skin.
Handle in accordance with good industrial hygiene and safety practice.
Non-sparking tools should be used. Keep container tightly closed.
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures

Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

Conditions for safe storage

Keep in properly labelled containers.
Keep tightly closed.
Keep in a cool, well-ventilated place.
Store in accordance with the particular national regulations.
Keep away from heat and sources of ignition.

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Materials to avoid

Do not store with the following product types: Self-reactive substances and mixtures Organic peroxides
 Oxidizing agents Flammable gases Pyrophoric liquids Pyrophoric solids
 Self-heating substances and mixtures
 Poisonous gases
 Explosives

SECTION 8
EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,880 mg/m ³	AU OEL
		STEL	1,000 ppm	ACGIH
Propan-2-ol	67-63-0	TWA	400 ppm 983 mg/m ³	AU OEL
		STEL	500 ppm 1,230 mg/m ³	AU OEL
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling	Permissible concentration	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

Engineering measures

Minimize workplace exposure concentrations.
 Use only in an area equipped with explosion proof exhaust ventilation.
 Use with local exhaust ventilation.

Personal protective equipment
Respiratory protection

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type

Organic vapour type

Hand protection
Material

Impervious gloves

Material

Flame retardant gloves

Remarks

Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

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Eye protection	Wear the following personal protective equipment: Safety goggles
Skin and body protection	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: Flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Appearance	liquid
Colour	clear, Colorless to pale yellow
Odour	Odour
Odour Threshold	No data available
pH	6.0 - 9.2 Melting point/freezing point
	No data available
Initial boiling point and boiling range	No data available
Flash point	25 °C
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Upper explosion limit	No data available
Lower explosion limit	No data available
	Vapour pressure
Relative vapour density	No data available
Density	0.89 g/cm3
Solubility(ies)	soluble
Water solubility	
Partition coefficient: n- octanol/water	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	The substance or mixture is not classified self-reactive.
Viscosity	1,000 - 35,000 mm2/s (20 °C)
Viscosity, kinematic	
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Not classified as a reactivity hazard.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.

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Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Oxidizing agents
Hazardous decomposition products	No hazardous decomposition products are known

SECTION 11 TOXICOLOGICAL INFORMATION

Exposure routes	Inhalation Skin contact Ingestion Eye contact
Acute toxicity	Not classified based on available information.
Components	Ethanol Acute oral toxicity LD50 (Rat): > 5,000 mg/kg Acute inhalation toxicity LC50 (Rat): 124.7 mg/l Exposure time: 4 h Test atmosphere: vapour Propan-2-ol Acute oral toxicity LD50 (Rat): > 5,000 mg/kg Acute inhalation toxicity LC50 (Rat): 72.6 mg/l Exposure time: 4 h Test atmosphere: vapour Acute dermal toxicity LD50 (Rat): > 5,000 mg/kg
Skin corrosion/irritation	Not classified based on available information.
Product	Result: No skin irritation
Components	Ethanol Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation Propan-2-ol Species: Rabbit Result: No skin irritation
Serious eye damage/eye irritation	Causes serious eye irritation.
Components	Ethanol Species: Rabbit Result: Irritation to eyes, reversing within 21 days Method: OECD Test Guideline 405 Propan-2-ol Species: Rabbit Result: Irritation to eyes, reversing within 21 days

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Respiratory or skin sensitisation	Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.
Product	Assessment: Does not cause skin sensitisation.
Components	Ethanol Test Type: Local lymph node assay (LLNA) Exposure routes: Skin contact Species: Mouse Result: negative Propan-2-ol Test Type: Buehler Test Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative
Chronic toxicity	
Germ cell mutagenicity	Not classified based on available information.
Components	Ethanol Genotoxicity in vitro: Test Type: In vitro mammalian cell gene mutation test Result: negative Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: negative Propan-2-ol Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vivo: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative
Carcinogenicity	Not classified based on available information.
Components	Propan-2-ol Species: Rat Application Route: inhalation (vapour) Exposure time: 104 weeks Method: OECD Test Guideline 451 Result: negative
Reproductive toxicity	Not classified based on available information.
Components	Ethanol Effects on fertility: Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative

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Effects on fertility:
Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on foetal development:
Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

STOT - single exposure

Not classified based on available information.

Components**Propan-2-ol**

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity**Components****Ethanol**

Species: Rat
NOAEL: 2,400 mg/kg Application
Route: Ingestion
Exposure time: 2 y

Propan-2-ol

Species: Rat
NOAEL: 5000 ppm
Application Route: inhalation (vapour)
Exposure time: 104 w
Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

SECTION 12 ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Ethanol**

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates
EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h

Toxicity to algae
EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)
NOEC (Daphnia magna (Water flea)): 9.6 mg/l
Exposure time: 9 d

Toxicity to bacteria
EC50 (Photobacterium phosphoreum): 32.1 mg/l
Exposure time: 0.25 h

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Propan-2-ol

Toxicity to fish
 LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates
 EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
 Exposure time: 24 h

Toxicity to algae
 ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800 mg/l
 Exposure time: 8 d

Toxicity to bacteria
 EC50 (Pseudomonas putida): > 1,050 mg/l
 Exposure time: 16 h

Persistence and degradability

Components

Ethanol

Biodegradability
 Result: Readily biodegradable
 Biodegradation: 84 % Exposure time: 20 d

Propan-2-ol

Biodegradability
 Result: rapidly degradable

Bioaccumulative potential

Components

Ethanol

Partition coefficient: n-octanol/water
 log Pow: -0.35

Propan-2-ol

Partition coefficient: n- octanol/water
 log Pow: 0.05

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

Dispose of in accordance with local regulations.

Contaminated packaging

Dispose of as unused product.
 Empty containers should be taken to an approved waste handling site for recycling or disposal.
 Do not burn, or use a cutting torch on, the empty drum.

SECTION 14 TRANSPORT INFORMATION

International Regulation

UNRTDG

UN number

UN 1987

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Proper shipping name ALCOHOLS, N.O.S.
(Ethanol, Propan-2-ol)

Class 3

Packing group III

Labels 3

IATA-DGR

UN/ID No. UN 1987

Proper shipping name Alcohols, n.o.s.
(Ethanol, Propan-2-ol)

Class 3

Packing group III

Labels Flammable Liquids

**Packing instruction
(cargo aircraft)** 366

**Packing instruction
(passenger aircraft)** 355

IMDG-Code

UN number UN 1987

Proper shipping name ALCOHOLS, N.O.S.
(Ethanol, Propan-2-ol)

Class 3

Packing group III

Labels 3

EmS Code F-E, S-D

Marine pollutant no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG

UN number UN 1987

Proper shipping name ALCOHOLS, N.O.S.

Class 3

Packing group III

Labels 3

Hazchem Code •3Y

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SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform Scheduling of Medicines and Poisons No poison schedule number allocated

Prohibition/Licensing Requirements There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwe

The components of this product are reported in the following inventories:

AICS All ingredients listed or exempt.

Inventories AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16 OTHER INFORMATION

Further information

Sources of key data used to compile the Safety Data Sheet Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Full text of other abbreviations

ACGIH USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI ACGIH - Biological Exposure Indices (BEI)
AU OEL Australia. Workplace Exposure Standards for Contaminants.
ACGIH / TWA 8-hour, time-weighted average
ACGIH / STEL Short-term exposure limit
AU OEL / TWA Exposure standard - time weighted average
AU OEL / STEL Exposure standard - short term exposure limit

END OF SDS