

SAFETY DATA SHEET
Hand Sanitizer Gel 70% Isopropyl Alcohol



Version 1 Revision Date: October 2022 SDS Number: 7011 (0, 1, 2, 3, 4, 5)

Date of last issue: October 3, 2022

SECTION 1. IDENTIFICATION

Product name : SOPURE Hand Sanitizer Gel

Manufacturer or supplier's details

Company name of supplier : EnviroServe Chemicals & Cleaners Ltd.

Address : 110 Ronson Drive
Etobicoke, Ontario, M9W 1B6
Canada

Telephone : 1 (416) 807-1390

Emergency telephone number : CANUTEC 1-888-CANUTEC 1-888-226-8832

Recommended use of the chemical and restrictions on use

Recommended use : Antiseptic Skin Cleanser, Medicated Skin Cleanser, Hand Sanitizer

Restrictions on use : This is a personal care 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. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Eye irritation : Category 2A

GHS label elements

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Hazard pictograms



Signal word

: Warning

Hazard statements

: H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements

Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.
P280 Wear eye protection/ face protection.

Response:
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.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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

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

Potential Health Effects

Primary Routes of Entry

Inhalation
Eye Contact
Skin Contact

Aggravated Medical Condition

None Known

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

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| Chemical name | CAS-No. | Concentration (% w/w) |
|-------------------|---------|-----------------------|
| Isopropyl Alcohol | 67-63-0 | 60 – 80 % |
| Glycerin | 56-81-5 | >= 1 - < 5 |

SECTION 4. FIRST AID MEASURES

| | |
|---|---|
| General advice | In the case of accident or if you feel unwell, seek medical advice immediately. |
| If inhaled | When symptoms persist or in all cases of doubt seek medical advice. If inhaled, remove to fresh air. |
| In case of skin contact | If symptoms persist, call a physician. Wash with water and soap as a precaution. |
| In case of eye contact | Get medical attention if irritation develops and persists. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. |
| If swallowed | If easy to do, remove contact lens, if worn. Seek medical advice. Do NOT induce vomiting. Rinse mouth with water. Obtain medical attention. |
| 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 protective clothing |

SECTION 5. FIREFIGHTING MEASURES

| | |
|---|---|
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | High volume water jet |
| Specific hazards during firefighting | Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray. Flash back possible over considerable distance. May form explosive mixtures in air. |
| Hazardous combustion products | Exposure to decomposition products may be a hazard to health. Carbon Oxides Silicon oxides |
| Specific extinguishing methods | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. |
| Further information | Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Environmental precautions | Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. 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. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations. |

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SECTION 7. HANDLING AND STORAGE

| | |
|-----------------------------|---|
| Advice on safe handling | For personal protection see section 8. Keep away from heat. Use with local exhaust ventilation. Avoid contact with eyes. |
| Conditions for safe storage | Take measures to prevent the build up of electrostatic charge. Keep in properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in accordance with the particular national regulations. |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|-------------------|---------|-------------------------------|--|-----------|
| Isopropyl Alcohol | 67-63-0 | TWA | 200 ppm 492 mg/m ³ | CA AB OEL |
| | | STEL | 400 ppm 984 mg/m ³ | CA AB OEL |
| | | TWA | 200 ppm | CA BC OEL |
| | | STEL | 400 ppm | CA BC OEL |
| | | TWAEV | 400 ppm 983 mg/m ³ | CA QC OEL |
| | | STEV | 500 ppm 1,230 mg/m ³ | CA QC OEL |
| | | TWA | 200 ppm | ACGIH |
| | | STEL | 400 ppm | ACGIH |
| Glycerin | 56-81-5 | TWA | 10 mg/m ³ | CA BC OEL |
| | | TWA (Respirable) | 3 mg/m ³ | CA BC OEL |
| | | TWA (Mist) | 10 mg/m ³ | CA BC OEL |
| | | TWA (Mist) | 10 mg/m ³ | CA AB OEL |
| | | TWAEV (Mist) | 10 mg/m ³ | CA QC OEL |
| | | TWA (Respirable mist) | 3 mg/m ³ | CA BC OEL |

Biological occupational exposure limits

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

Personal protective equipment

| | |
|--------------------------|---|
| Respiratory protection | No personal respiratory protective equipment normally required. |
| Hand protection | No special protective equipment required. |
| Eye protection | Wear face-shield and protective suit for abnormal processing problems. |
| Skin and body protection | No special measures necessary provided product is used correctly. |
| Protective measures | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Ensure that eye flushing systems and safety showers are located close to the working place. |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. |

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SECTION 9. Physical & Chemical Properties

| | |
|---|---|
| Appearance | Gel |
| Colour | clear, colourless |
| Odour | alcohol-like |
| Odour Threshold | No data available |
| pH | 7 - 8 |
| Melting point/freezing point | No data available |
| Initial boiling point and boiling range | 73.00°C |
| Flash point | 26.00 °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 | No data available |
| Relative vapour density | No data available |
| Density | N/A |
| Solubility(ies) Water | Soluble |
| Solubility | |
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | The substance or mixture is not classified self-reactive. |
| Viscosity, kinematic | 10 - 20 mm ² /s (20 °C) |
| 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 | Vapours may form explosive mixture with air. |
| Conditions to avoid | Heat, flames and sparks. |
| Incompatible materials | Strong oxidizing agents Flammable solids Self-reactive substances and mixtures Water-reactive substances |
| Hazardous decomposition products | No hazardous decomposition products are known. |

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Acute toxicity

Components

Isopropyl Alcohol:

Acute oral toxicity >5000 mg/kg.

Acute inhalation Toxicity 72.6 mg/L

4 Hours

Vapour

Accute Dermal Toxicity >5000 mg/kg

Glycerin

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Acute oral toxicity >25,000 mg/kg.
Acute inhalation Toxicity >51,000 mg/L

96 hrs
liquid
Accute Dermal Toxicity >18,700 mg/kg.

Skin Corrosion/irritation

Isopropyl Alcohol No Skin Irritation
Glycerin No Skin Irritation
Serious eye damage/eye irritation Causes serious eye irritation

Components

Isopropyl Alcohol Rabbit Irritation to eyes reversing within 21 days

Glycerin No Eye Irritation

Respiratory or skin sensitization Not classified based on available information

Components

Isopropyl Alcohol Test Type dhk Buehler Test
Exposure Routes Skin Contact
Species Guinea pig
Method OECD Test Guideline 406
Results Negative

Germ cell mutagenicity Not classified based on available information

Components

Isopropyl Alcohol Genotoxicity in Vitro
Test Type Bacterial reverse mutation assay (AMES)
Results Negative
Genotoxicity in vivo
Test Type Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species Mouse
Application Intraperitoneal injection
Route
Results Negative

Glycerin Genotoxicity in Vitro
Test type In vitro mammalian cell gene mutation
Test method OECD
Test Guideline 476
Result Negative

Carcinogenicity Not classified based on available information

Reproductive Toxicity Not classified based on available information

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| | | |
|------------------------------|-----------------|--|
| STOT | Single Exposure | Not classified based on available information |
| STOT | Repeat Exposure | Not classified based on available information. Repeated dose toxicity |
| Aspiration Toxicity | | Not classified based on available information |
| Reproductive toxicity | | Not classified based on available information |

Components:

**Isopropyl Alcohol
Effects on Fertility**

| | |
|-------------------|--|
| Test Type | Two-generation reproduction toxicity study |
| Species | Rat |
| Application Route | Ingestion |
| Results | Negative |

Effects on fetal development

| | |
|-------------------|--------------------------|
| Test Type | Embryo Fetal development |
| Species | Rat |
| Application Route | Ingestion |
| Results | Negative |

**Glycerin
Effects on Fertility**

| | |
|-------------------|--|
| Test Type | Two-generation reproduction toxicity study |
| Species | Rat |
| Application Route | Ingestion |
| Results | Negative |

Effects on fetal development

| | |
|-------------------|--------------------------|
| Test Type | Embryo Fetal development |
| Species | Rabbit |
| Application Route | Ingestion |
| Results | Negative |

Isopropyl Alcohol

| | |
|----------------------|--------------------------------|
| Species | Rat |
| NOAEL | 5000 ppm |
| Application Route | Inhalation (vapour) |
| Exposure Time | 104W |
| Method | OECD Test Guideline 413 |

Glycerin

| |
|-----------------------------|
| Rat |
| 167 mg/m ³ |
| 660 mg/ m ³ |
| Inhalation (dust/mist/fume) |
| 13 weeks |
| Local irritation |

Aspiration Toxicity Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components

Isopropyl Alcohol

| | | |
|--|---|------------------------|
| 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 bacteria | EC50 (Pseudomonas putida) | >1,050 mg/L |
| | Exposure Time | 16 h |

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Glycerin

| | | |
|--|---|--|
| <p>Toxicity to fish</p> <p>Toxicity to Daphnia and other aquatic invertebrates</p> <p>Toxicity to bacteria</p> <p>Persistence and degradability Components Isopropyl Alcohol</p> <p>Biodegradability Glycerin</p> <p>Biodegradability</p> <p>Bio accumulative potential Components Isopropyl Alcohol</p> <p>Partition coefficient: n-octanol/water Glycerin</p> <p>Partition coefficient: n-octanol/water</p> <p>Mobility in soil</p> <p>Other Adverse effects</p> | <p>LC50 (Oncorhynchus mykiss (rainbow trout) Exposure Time</p> <p>EC50 (Daphnia magna(Water flea) Exposure Time</p> <p>EC50 (Pseudomonas putida) Exposure Time</p> <p>Results</p> <p>Results</p> <p>Biodegradation Exposure Time</p> <p>Log POW: 0.05</p> <p>Log POW: -1.76</p> <p>No Data Available</p> <p>No Data Available</p> | <p>54,000 mg/l</p> <p>96 h</p> <p>>1,955 mg/L</p> <p>48 h</p> <p>>10,000 mg/L</p> <p>16 h</p> <p>Rapidly Biodegradable</p> <p>Readily Biodegradable</p> <p>94% 1 d</p> |
|--|---|--|

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. |

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

| | |
|--|--------------------------------------|
| UN/ID No. | UN 1219 |
| Proper shipping name | Alcohols, n.o.s. (Isopropyl Alcohol) |
| Class | 3 |
| Packing group | III |
| Packing instruction (cargo aircraft) | 366 355 |
| Packing instruction (passenger aircraft) | |

IMDG-Code

| | |
|-----------|---------|
| UN number | UN 1219 |
|-----------|---------|

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| | |
|----------------------|--|
| Proper shipping name | ALCOHOLS, N.O.S. (Isopropyl Alcohol, Propan-2-ol) |
| Class | 3 |
| Packing group | III |
| Labels | 3 |
| EmS Code | F-E, S-D |
| Marine pollutant | no |

National Regulations

TDG

| | |
|----------------------|---|
| UN number | : UN 1219 |
| Proper shipping name | : ALCOHOLS, N.O.S. (Isopropyl Alcohol, Propan-2-ol) |
| Class | : 3 |
| Packing group | : III |
| Labels | : 3 |
| ERG Code | : 127 |
| Marine pollutant | : no |

SECTION 15. REGULATORY INFORMATION

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

| | |
|-------|--|
| TSDA | On TSCA Inventory |
| AICS | On the inventory of compliance with the inventory |
| DSL | All components of this product are on the Canadian DSL |
| ENCS | On the inventory of compliance with the inventory |
| ISHL | On the inventory of compliance with the inventory |
| KECI | On the inventory of compliance with the inventory |
| PICCS | On the inventory of compliance with the inventory |
| IECSC | On the inventory of compliance with the inventory |
| NZIoC | On the inventory of compliance with the inventory |

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% re- sponse; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - Internation- al Agency for Research on Cancer; IATA - International Air Transport Association; IBC - Interna- tional Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dan- gerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemi- cals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Pre- vention of Pollution from Ships; n.o.s. -

