SAFETY DATA SHEET

PURELL™ FOODSERVICE SURFACE SANITIZER – FINISHED PRODUCT

Version 1.4  SDS Number: 40000005188  Revision Date: 02/18/2019

SECTION 1. IDENTIFICATION

Product name : PURELL™ FOODSERVICE SURFACE SANITIZER – FINISHED PRODUCT USE ONLY

Manufacturer or supplier’s details
Company name of supplier : GOJO Industries, Inc.
Address : One GOJO Plaza, Suite 500
           Akron, Ohio 44311
Telephone : 1 (330) 255-6000
Emergency telephone number : 1-800-424-9300 CHEMTREC

Recommended use of the chemical and restrictions on use
Recommended use : Disinfectants and general biocidal products

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Flammable liquids : Category 3

GHS label elements
Hazard pictograms :

Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

Precautionary statements : Prevention:
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
Response:
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
Disposal:
P501 Dispose of contents/container to an approved waste disposal plant.
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>&gt;= 20 - &lt; 35</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.

If inhaled : If sensitivity occurs, remove to fresh air. If symptoms persist, call a physician.

In case of skin contact : If sensitivity occurs, wash with soap and water. Get medical attention if irritation develops and persists.

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids. If easy to do, remove contact lens, if worn. Get medical attention if irritation develops and persists.

If swallowed : Rinse mouth with water. Obtain medical attention.

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

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. Exposure to decomposition products may be a hazard to
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: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Material can create slippery conditions.

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.

Methods and materials for containment and cleaning up: Non-sparking tools should be used. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling: Avoid contact with eyes.

Conditions for safe storage: No smoking. Take measures to prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Store in accordance with the particular national regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm 1,900 mg/m3</td>
<td>NIOSH REL</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Samplin g time</th>
<th>Permissible concentratio n</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>Acetone</td>
<td>Urine</td>
<td>End of shift at end of workweek</td>
<td>40 mg/l</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

**Biological occupational exposure limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Permissible concentratio n</th>
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<tr>
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<td>Urine</td>
<td>End of shift at end of workweek</td>
<td>40 mg/l</td>
</tr>
</tbody>
</table>

**Personal protective equipment**

Respiratory protection: No personal respiratory protective equipment normally required.

Eye protection: No special measures necessary provided product is used correctly.

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.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: liquid

Colour: colourless

Odour: alcohol-like
Odour Threshold : No data available
pH : 12.6 - 12.9, (24 °C)
Melting point/freezing point : No data available
Initial boiling point and boiling range : 77 °C
Flash point : 30.8 °C
   Method: Pensky-Martens closed cup
Evaporation rate : No data available
Flammability (solid, gas) : Not applicable
Flammability (liquids) :
Upper explosion limit : 19 %(V)
Lower explosion limit : 3.3 %(V)
Vapour pressure : No data available
Relative vapour density : No data available
Relative density : No data available
Density : 0.952 g/cm³
Solubility(ies)
   Water solubility : soluble
Partition coefficient: n-octanol/water : Not applicable
Auto-ignition temperature : not determined
Thermal decomposition : The substance or mixture is not classified self-reactive.
Viscosity
   Viscosity, dynamic : 2.6 mPa.s
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.
Possibility of hazardous reactions : Vapours may form explosive mixture with air.
SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation
Skin contact
Eye contact

Acute toxicity
Not classified based on available information.

Components:
Ethyl Alcohol:
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

Isopropyl Alcohol:
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:
Ethyl Alcohol:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Isopropyl Alcohol:
Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation
Not classified based on available information.
Components:
Ethyl Alcohol:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Method: OECD Test Guideline 405

Isopropyl Alcohol:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitisation
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Components:
Ethyl Alcohol:
Test Type: Local lymph node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse
Result: negative

Isopropyl Alcohol:
Test Type: Buehler Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

Germ cell mutagenicity
Not classified based on available information.

Components:
Ethyl Alcohol:
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)
Test species: Mouse
Application Route: Ingestion
Result: negative

Isopropyl Alcohol:
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)
Test species: Mouse
Application Route: Intraperitoneal injection
Result: negative

Carcinogenicity
Not classified based on available information.
Components:
Isopropyl Alcohol:
Species: Rat
Application Route: inhalation (vapour)
Exposure time: 104 weeks
Method: OECD Test Guideline 451
Result: negative

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.

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.

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

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

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity
Not classified based on available information.

Components:
Ethyl Alcohol:
Effects on fertility: Test Type: Two-generation reproduction toxicity study
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

Isopropyl Alcohol:
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
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STOT - single exposure
Not classified based on available information.

Components:
Isopropyl Alcohol:
Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure
Not classified based on available information.

Repeated dose toxicity

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

Isopropyl Alcohol:
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:
Ethyl Alcohol:
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 (Chronic 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

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

Persistence and degradability

**Components:**

**Ethyl Alcohol:**
Biodegradability: Result: Readily biodegradable.
Biodegradation: 84 %
Exposure time: 20 d

**Isopropyl Alcohol:**
Biodegradability: Result: rapidly degradable

Bioaccumulative potential

**Components:**

**Ethyl Alcohol:**
Partition coefficient: n-octanol/water: log Pow: -0.35

**Isopropyl Alcohol:**
Partition coefficient: n-octanol/water: log Pow: 0.05

Mobility in soil
No data available

Other adverse effects
No data available

**Product:**

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues: Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulation
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IATA-DGR
UN/ID No. : UN 1987
Proper shipping name : Alcohols, n.o.s.
                      (Ethanol, Propan-2-ol)
Class : 3
Packing group : III
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

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Hydroxide</td>
<td>1310-58-3</td>
<td>1000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard

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

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:
Clean Air Act
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC’s (40 CFR 60.489):
Ethyl Alcohol 64-17-5 29.4 %
Isopropyl Alcohol 67-63-0 1.42 %
This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

Clean Water Act
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307
The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:
Potassium Hydroxide 1310-58-3 0.35 %
The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:
Potassium Hydroxide 1310-58-3 0.35 %

Massachusetts Right To Know
Ethyl Alcohol 64-17-5 20 - 35 %
Isopropyl Alcohol 67-63-0 1 - 5 %

Massachusetts Right To Know
Ethyl Alcohol 64-17-5 20 - 30 %
Isopropyl Alcohol 67-63-0 1 - 5 %

Pennsylvania Right To Know
Water (Aqua) 7732-18-5 70 - 90 %
Ethyl Alcohol 64-17-5 20 - 35 %
Isopropyl Alcohol 67-63-0 1 - 5 %
Potassium Hydroxide 1310-58-3 0.1 - 1 %

Pennsylvania Right To Know
Water (Aqua) 7732-18-5 70 - 90 %
Ethyl Alcohol 64-17-5 20 - 30 %
Isopropyl Alcohol 67-63-0 1 - 5 %
Potassium Hydroxide 1310-58-3 0.1 - 1 %

New Jersey Right To Know
Water (Aqua) 7732-18-5 70 - 90 %
Ethyl Alcohol 64-17-5 20 - 35 %
Isopropyl Alcohol 67-63-0 1 - 5 %

New Jersey Right To Know
Water (Aqua) 7732-18-5 70 - 90 %
Ethyl Alcohol 64-17-5 20 - 30 %
Isopropyl Alcohol 67-63-0 1 - 5 %

California Prop 65
This product does not contain any chemicals known to State
of California to cause cancer, birth defects, or any other reproductive harm.

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

- CH INV: On the inventory, or in compliance with the inventory
- TSCA: On TSCA Inventory
- DSL: All components of this product are on the Canadian DSL.
- AICS: On the inventory, or in compliance with the inventory
- NZIoC: On the inventory, or in compliance with the inventory
- ENCS: On the inventory, or in compliance with the inventory
- ISHL: On the inventory, or in compliance with the inventory
- KECl: On the inventory, or in compliance with the inventory
- PICCS: On the inventory, or in compliance with the inventory
- IECSC: On the inventory, or in compliance with the inventory

Inventories

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

SECTION 16. OTHER INFORMATION

Further information

**NFPA:**

- **Health:** 0
- **Flammability:** 3
- **Special hazard:** 0

**HMIS III:**

- **HEALTH:** 0
- **FLAMMABILITY:** 3
- **PHYSICAL HAZARD:** 0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Revision Date: 09/28/2017

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
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 or in any process, unless specified in the text.