

**PURELL™ PROFESSIONAL SURFACE DISINFECTANT – FINISHED PRODUCT**

Version 1.4

SDS Number: 400000005189

Revision Date: 09/29/2017

**SECTION 1. IDENTIFICATION**

Product name : PURELL™ PROFESSIONAL SURFACE DISINFECTANT  
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.


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**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**
**Hazardous components**

| Chemical name     | CAS-No. | Concentration (%) |
|-------------------|---------|-------------------|
| Ethyl Alcohol     | 64-17-5 | >= 20 - < 35      |
| Isopropyl Alcohol | 67-63-0 | >= 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 : 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 : 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.  
Seek medical advice.
- 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 (CO<sub>2</sub>)  
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


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health.

- 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**

| Components    | CAS-No. | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|---------------|---------|----------------------------------|---|-----------|
| Ethyl Alcohol | 64-17-5 | TWA                              | 1,000 ppm<br>1,900 mg/m <sup>3</sup>              | NIOSH REL |


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|                   |         |      |                                      |           |
|-------------------|---------|------|--------------------------------------|-----------|
|                   |         | TWA  | 1,000 ppm<br>1,900 mg/m <sup>3</sup> | OSHA Z-1  |
|                   |         | STEL | 1,000 ppm                            | ACGIH     |
| Isopropyl Alcohol | 67-63-0 | TWA  | 200 ppm                              | ACGIH     |
|                   |         | STEL | 400 ppm                              | ACGIH     |
|                   |         | TWA  | 400 ppm<br>980 mg/m <sup>3</sup>     | NIOSH REL |
|                   |         | ST   | 500 ppm<br>1,225 mg/m <sup>3</sup>   | NIOSH REL |
|                   |         | TWA  | 400 ppm<br>980 mg/m <sup>3</sup>     | OSHA Z-1  |

**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 workweek | 40 mg/l                   | ACGIH BEI |

**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.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Colour : colourless
- Odour : alcohol-like

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|   |   |
|---|---|
| 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<br>Method: Pensky-Martens closed cup              |
| Evaporation rate                        | : No data available   |
| Flammability (solid, gas)               | : Not applicable  |
| Flammability (liquids)                  | : No data available   |
| 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/cm <sup>3</sup>                                   |
| Solubility(ies)<br>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<br>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. |

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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****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.

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**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: negativeGenotoxicity 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: negativeGenotoxicity 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.


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**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 hToxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
aquatic invertebrates Exposure time: 48 hToxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 9.6 mg/l  
aquatic invertebrates Exposure time: 9 d  
(Chronic toxicity)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

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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).

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

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

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**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

**National Regulations****49 CFR**

UN/ID/NA number : UN 1987  
 Proper shipping name : Alcohols, n.o.s.  
 (Ethanol, Propan-2-ol)  
 Class : 3  
 Packing group : III  
 ERG Code : 127  
 Marine pollutant : no

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**SECTION 15. REGULATORY INFORMATION**
**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

| Components          | CAS-No.   | Component RQ (lbs) | Calculated product RQ (lbs) |
|---------------------|-----------|--------------------|-----------------------------|
| Potassium Hydroxide | 1310-58-3 | 1000               | *                           |

\*: 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:


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|                   |         |        |
|-------------------|---------|--------|
| Isopropyl Alcohol | 67-63-0 | 1.42 % |
|-------------------|---------|--------|

**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 SOCM/ 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

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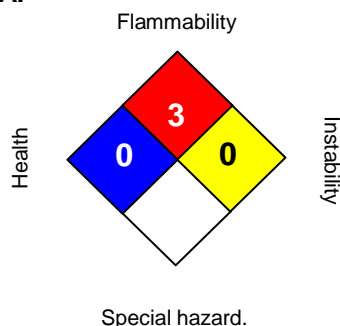
of California to cause cancer, birth defects, or any other reproductive harm.

**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   |
| KECI   | : 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), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**SECTION 16. OTHER INFORMATION**
**Further information**
**NFPA:**

**HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>0</b> |
| <b>FLAMMABILITY</b>    | <b>3</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

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

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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



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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.