SAFETY DATA SHEET
(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name : PURELL® Advanced Hygienic Hand Rub
Product code : B1709.

1.2. Relevant identified uses of the substance or mixture and uses advised against
Disinfectant product

1.3. Details of the supplier of the safety data sheet
Registered company name : GOJO Industries-Europe Ltd.
Address : Units 5 & 6, Stratus Park.MK10 0DE.Brinklow, Milton Keynes.England.
Telephone : +44(0) 1908588444.     Fax : +44(0) 1908588445.
infoUK@gojo.com

1.4. Emergency telephone number : +44(0) 8445605135.
Association/Organisation :

Other emergency numbers
Belgique, België, Belgien / Lëtzebuerg, Luxemburg, Luxembourg : Centre Anti-Poisons/Antigifcentrum: 0032 (0)70 245 245
Österreich : Vergiftungsinformationszentrale Vienna: +43 1 406 43 43
Deutschland : Giftnotruf Berlin: +49 30 19240
Bulgaria : Emergency Medical Institute Pirogov: +359 2 9154 409
Hrvatska : Poison Control Centre Zagreb: +358 1 2348 342
Danmark : Poison Hotline, Bispebjerg Hospital: + 45 82 12 12 12
España : Teléfono Instituto Nacional de Toxicología: +34 91 562 04 20
Eesti : Estonian Poison Information Centre: +372 62 69 379
Suomi, Finland : Finland Poison Information Centre:+358 9 471 977
Greece : Poisons Information Centre: +30 21 07 79 37 77
Magyarország : Health Toxicological Information Service: +36 80 20 11 99
Irland, Éire : Ireland National Poisons Information Centre: +353 1 8379964
Ísland : Iceland Poison Information Centre: +354 525 111, +354 543 2222
Italia : Centro Antiveleni, Roma: +39 06 305 4343
Latvija : Latvian Poisons Information Centre: +371 6704 2473
Lietuva : Apsinuodijimu kontroles ir informacijos biuras: +370 2 36 20 52, +370 687 53378
Malta : Mater Dei Hospital: + 356 21450000
Norge, Noreg : Norway Poisons Information:+ 47 22 591300
Nederland : Nationaal Vergiftigingen Informatie Centrum: +31 30 274 88 88
Polska : Poland Poison Control and Information Centre, Warsaw: +48 22 619 66 54, +48 22 619 08 97
Portugal : Centro de Informação Antivenenos: +351 21 330 3284
România : Spitalul de Urgenta Floreasca: +40 21 230 8000
United Kingdom : Guy's & St Thomas' Poisons Unit, London: +44 870 243 2241
Slovenko : National Toxicological Information Centre : +421 2 54 77 4 166
Slovenija : Poison Centre: + 386 41 650 500
Sverige : Giftinformationscentralen, Stockholm: +46 8 33 12 31
Schweiz, Suisse, Svizzera, Svizra : Swiss Toxicological Information Centre: +41 44 251 51 51

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
In compliance with EC regulation No. 1272/2008 and its amendments.
Flammable liquid, Category 3 (Flam. Liq. 3, H226).
Eye irritation, Category 2 (Eye Irrit. 2, H319).
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.
2.2. Label elements

Biocidal mixture (see section 15).

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms:

GHS07  GHS02

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.

Precautionary statements - 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.

2.3. Other hazards

The mixture does not contain substances classified as ‘Substances of Very High Concern’ (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition:

<table>
<thead>
<tr>
<th>Identification</th>
<th>(EC) 1272/2008</th>
<th>Note</th>
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<td>CAS: 64-17-5</td>
<td>ETHANOL</td>
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<td>PROPA-2-OL</td>
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<td>CAS: 56-81-5</td>
<td>GLYCERINE</td>
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<td>CAS: 124-68-5</td>
<td>GHS02, GHS08, GHS07, GHS09 Dgr Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1</td>
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<td>CAS: 110-82-7</td>
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<tr>
<td>EC: 203-806-2</td>
<td>CYCLOHEXANE</td>
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</table>

Information on ingredients:

[1] Substance for which maximum workplace exposure limits are available.
SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of splashes or contact with eyes:
Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.
If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of swallowing:
Seek medical attention, showing the label.

4.2. Most important symptoms and effects, both acute and delayed
No data available.

4.3. Indication of any immediate medical attention and special treatment needed
No data available.

SECTION 5 : FIREFIGHTING MEASURES

Flammable.
Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media
Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction
In the event of a fire, use:
- carbon dioxide (CO2)
- powder
- foam
- dry sand
Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction
In the event of a fire, do not use:
- water jet

5.2. Special hazards arising from the substance or mixture
A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
Do not breathe in smoke.
In the event of a fire, the following may be formed:
- carbon monoxide (CO)
- carbon dioxide (CO2)

5.3. Advice for firefighters
Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Consult the safety measures listed under headings 7 and 8.

For first aid worker
First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions
Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up
Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections
No data available.
SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Remove and wash contaminated clothing before re-using.

Fire prevention:

Handle in well-ventilated areas.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged: always earth during decanting operations. Wear antistatic shoes and clothing and floors should be electrically conductive.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid eye contact with this mixture.

Prohibited equipment and procedures:

- No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

Avoid accumulation of electrostatic charges.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:


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<tr>
<th>CAS</th>
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<th>VLE-mg/m3</th>
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- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

<table>
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- Germany - AGW (BAuA - TRGS 900, 21/06/2010):

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- Belgium (Order of 19/05/2009, 2010):

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<tr>
<td>64-17-5</td>
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<td>56-81-5</td>
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- **Denmark (2007):**

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<td>50 ppm</td>
<td>172 mg/m^3</td>
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- **France (INRS - ED984 :2008):**

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- **Finland (HTP-värden 2009):**

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<td>250 ppm</td>
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- **Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), Mayo 2010):**

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<tr>
<th>CAS</th>
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<tr>
<td>64-17-5</td>
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<td>110-82-7</td>
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- **Ireland (Code of practice for the safety, Health and Welfare at Work, 2010):**

<table>
<thead>
<tr>
<th>CAS</th>
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<tr>
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- **Norway (Veiledning om administrative normer for forurensning i arbeidsatmosfære, May 2007):**

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- **Netherlands / MAC-waarde (SER, 4 May 2010):**

<table>
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<th>Ceiling</th>
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- **Poland (2009):**

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- **Czech Republic (Regulation No. 361/2007):**

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- **Slovakia (Regulation No. 300/2007):**

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<td>200 ppm</td>
<td>700 mg/m^3</td>
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</table>
8.2. Exposure controls

**Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):

Use personal protective equipment that is clean and has been properly maintained.
Store personal protective equipment in a clean place, away from the work area.
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- **Eye / face protection**
  - Avoid contact with eyes.
  - In the event of high danger, protect the face with a face shield.
  - Prescription glasses are not considered as protection.
  - Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.
  - Provide eyewash stations in facilities where the product is handled constantly.

- **Body protection**
  - Work clothing worn by personnel shall be laundered regularly.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1. Information on basic physical and chemical properties

**General information**

- Physical state: Fluid liquid.
- Color: colourless
- Odour: alcoholic

**Important health, safety and environmental information**

- pH: 7.50 +/- 1. Neutral.
- Flash Point: 24.00 °C.
- Vapour pressure (50°C): Not relevant.
- Density: 0.88 g/cm³
- Water solubility: Soluble.
- Viscosity: 6.000 - 17.000 mm²/s (20 °C)
- % VOC: < 75%

### 9.2. Other information

No data available.
SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity
   No data available.

10.2. Chemical stability
   This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions
   No data available.

10.4. Conditions to avoid
   Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.
   Avoid:
   - accumulation of electrostatic charges.
   - heating
   - heat
   - flames and hot surfaces
   - frost

10.5. Incompatible materials

10.6. Hazardous decomposition products
   The thermal decomposition may release/form:
   - carbon monoxide (CO)
   - carbon dioxide (CO2)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
   May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

11.1.1. Substances
   No toxicological data available for the substances.

11.1.2. Mixture
   No toxicological data available for the mixture.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.2. Mixtures
   No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability
   No data available.

12.3. Bioaccumulative potential
   No data available.

12.4. Mobility in soil
   No data available.

12.5. Results of PBT and vPvB assessment
   No data available.

12.6. Other adverse effects
   No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods
   Do not pour into drains or waterways.

Waste:
   Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.
   Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
   Do not contaminate the ground or water with waste, do not dispose of waste into the environment.
**SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH)**

**SECTION 14 : TRANSPORT INFORMATION**


14.1. UN number

1987

14.2. UN proper shipping name

UN1987=ALCOHOLS, N.O.S. (ethanol, propan-2-ol)

14.3. Transport hazard class(es)

- Classification :

  ![Transport Hazard Class 3](image-url)

3

14.4. Packing group

III

14.5. Environmental hazards

-

14.6. Special precautions for user

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<th>Label</th>
<th>Ident.</th>
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<th>Provis.</th>
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<td>3</td>
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<td>III</td>
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<td>366</td>
<td>220 L</td>
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<td>-</td>
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For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.
For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

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**SECTION 15 : REGULATORY INFORMATION**

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

- Classification and labelling information included in section 2:

  The following regulations have been used:
  - EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
  - EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
  - EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2014.

- Container information:

  No data available.

- Particular provisions :

  No data available.


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15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3:

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Abbreviations:

ADR : European agreement concerning the international carriage of dangerous goods by Road.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
ICAO : International Civil Aviation Organisation.
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefährdungsklasse (Water Hazard Class).
GHS02 : Flame
GHS07 : Exclamation mark
PBT: Persistent, bioaccumulative and toxic.
vPvB : Very persistent, very bioaccumulative.
SVHC : Substances of very high concern.