# SAFETY DATA SHEET

#### 1. Identification

**Product identifier PURELL ® Foaming Hand Sanitizer** 

Other means of identification None.

Hand sanitizer. Recommended use Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name GOJO Industries. Inc. **Address** 

One GOJO Plaza, Suite 500

Akron, OH 44311

USA

**Telephone** (330) 255-6000 E-mail Not available.

**Emergency phone number** 1-800-424-9300 CHEMTREC

## 2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

> Gases under pressure Liquefied gas

Serious eye damage/eye irritation Category 2 **Health hazards** 

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes

serious eve irritation.

**Precautionary statement** 

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Wash thoroughly after handling. Wear eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Response

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to Storage

temperatures exceeding 50°C/122°F.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

## 3. Composition/information on ingredients

### **Mixtures**

| Chemical name       | CAS number | %   |
|---------------------|------------|-----|
| Ethanol             | 64-17-5    | >50 |
| 1,1-difluoroethane  | 75-37-6    | <5  |
| Cetostearyl alcohol | 67762-27-0 | <5  |
| Isobutane           | 75-28-5    | <2  |

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**Composition comments** 

Components not listed are either non-hazardous or are below reportable limits.

4. First-aid measures

Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Skin contact Get medical attention if irritation develops and persists.

Flush eyes thoroughly with water for at least 15 minutes. If irritation occurs, get medical Eye contact

assistance.

Rinse mouth thoroughly with water and give large amounts of water to people not unconscious. Ingestion

Seek medical attention if discomfort persists.

Most important

symptoms/effects, acute and

delayed

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and

blurred vision. Coughing.

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

**General information** 

First aid personnel must be aware of own risk during rescue.

5. Fire-fighting measures

Suitable extinguishing media

Dry chemical, CO2, water spray or alcohol resistant foam.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Flammable aerosol - may cause flash fire.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

Use standard firefighting procedures and consider the hazards of other involved materials.

Containers close to fire should be removed immediately or cooled with water. equipment/instructions

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate the area. Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate personal protective equipment (See Section 8).

Methods and materials for containment and cleaning up

Remove sources of ignition.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product

and place into a container for later disposal.

**Environmental precautions** 

No specific precautions.

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## 7. Handling and storage

Precautions for safe handling

Avoid inhalation of vapors and spray mist and contact with skin and eyes. Do not smoke and do not spray near an open flame or other sources of ignition. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Vapors may be ignited by a spark, a hot surface or an ember. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Follow rules for flammable liquids. Keep away from heat, sparks and open flame. No special restrictions on storage with other products.

#### 8. Exposure controls/personal protection

Occupational exposure limits

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US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components            | Туре | Value      |  |
|-----------------------|------|------------|--|
| Ethanol (CAS 64-17-5) | PEL  | 1900 mg/m3 |  |
|                       |      | 1000 ppm   |  |

#### **US. ACGIH Threshold Limit Values**

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| Components              | Туре | Value    |  |
|-------------------------|------|----------|--|
| Ethanol (CAS 64-17-5)   | STEL | 1000 ppm |  |
| Isobutane (CAS 75-28-5) | STEL | 1000 ppm |  |

| Components              | Туре | Value      |  |
|-------------------------|------|------------|--|
| Ethanol (CAS 64-17-5)   | TWA  | 1900 mg/m3 |  |
|                         |      | 1000 ppm   |  |
| Isobutane (CAS 75-28-5) | TWA  | 1900 mg/m3 |  |
|                         |      | mag 008    |  |

## US. Workplace Environmental Exposure Level (WEEL) Guides

| Components                       | Туре | Value      |  |
|----------------------------------|------|------------|--|
| 1,1-difluoroethane (CAS 75-37-6) | TWA  | 2700 mg/m3 |  |
| ,                                |      | 1000 ppm   |  |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of Appropriate engineering inhalation of vapors and mist.

controls

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields. Applicable for industrial settings only. Eye/face protection

Skin protection

Hand protection Wear protective gloves. Applicable for industrial settings only.

Wear suitable protective clothing. Applicable for industrial settings only. Other

Respiratory protection Not normally needed.

Thermal hazards Not applicable.

## 9. Physical and chemical properties

| Appearance     | White foam.     |  |
|----------------|-----------------|--|
| Physical state | Liquid, Gas.    |  |
| Form           | Aerosol liquid. |  |
| Color          | White.          |  |
| Odor           | Not available.  |  |

Not available. Odor threshold Not available. pН Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Not available. Flash point Not available. **Evaporation rate** Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit - upper Not available.

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

Not available. Vapor pressure Not available. Vapor density Not available. Relative density

Solubility(ies)

Solubility (water) Not available. Not available. **Partition coefficient** 

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available.

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Not available. **Viscosity** 

Other information

Not explosive. **Explosive properties** Oxidizing properties Not oxidizing.

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat. Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition No hazardous decomposition products are known.

products

### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

No adverse effects due to skin contact are expected. Skin contact

Eye contact Causes serious eye irritation.

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and

7000 - 11000 mg/kg

blurred vision. Coughing.

#### Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

Components **Species Test Results** 

Ethanol (CAS 64-17-5)

Acute Inhalation

LC50

Mouse 39 g/m3, 4 Hours

Oral LD50

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Rat

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

Prolonged inhalation may be harmful. **Chronic effects** 

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### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components           |      | Species             | Test Results         |  |
|----------------------|------|---------------------|----------------------|--|
| Ethanol (CAS 64-17-5 | )    |                     |                      |  |
| Aquatic              |      |                     |                      |  |
| Crustacea            | LC50 | Ceriodaphnia dubia  | 5012 mg/l, 48 hours  |  |
|                      |      | Daphnia magna       | 454 mg/l, 11 days    |  |
|                      | NOEC | Ceriodaphnia dubia  | 9.6 mg/l             |  |
| Fish                 | LC50 | Pimephales promelas | 13480 mg/l, 96 hours |  |

Persistence and degradability

No data is available on the degradability of this product.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

 1,1-difluoroethane (CAS 75-37-6)
 0.75

 Ethanol (CAS 64-17-5)
 -0.31

 Isobutane (CAS 75-28-5)
 2.76

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

## 14. Transport information

DOT

UN number UN1950

UN proper shipping name

Transport hazard class(es)

Aerosols, flammable, (each not exceeding 1 L capacity)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -

Packing group Not applicable.

**Environmental hazards** No. **ERG Code** 10L

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Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN** number UN1950 **UN proper shipping name AEROSOLS** 

Transport hazard class(es)

Class 2.1 Subsidiary risk

Not applicable. Packing group

**Environmental hazards** 

Marine pollutant No. **EmS** F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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

Not established.

**General information** 

the IBC Code

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet

cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable

regulations.

## 15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Isobutane (CAS 75-28-5) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

> Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

1.1-difluoroethane (CAS 75-37-6) Isobutane (CAS 75-28-5)

Safe Drinking Water Act

Not regulated.

(SDWA)

**US** state regulations

**US. Massachusetts RTK - Substance List** 

1,1-difluoroethane (CAS 75-37-6)

Ethanol (CAS 64-17-5) Isobutane (CAS 75-28-5)

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### US. New Jersey Worker and Community Right-to-Know Act

1,1-difluoroethane (CAS 75-37-6)

Ethanol (CAS 64-17-5)

Isobutane (CAS 75-28-5)

### US. Pennsylvania Worker and Community Right-to-Know Law

Ethanol (CAS 64-17-5) Isobutane (CAS 75-28-5)

#### **US. Rhode Island RTK**

1,1-difluoroethane (CAS 75-37-6) Isobutane (CAS 75-28-5)

## **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region

|             | inventory name   |     |
|-------------|--|-----|
| Australia   | Australian Inventory of Chemical Substances (AICS)                     | Yes |
| Canada      | Domestic Substances List (DSL)   | Yes |
| Canada      | Non-Domestic Substances List (NDSL)                                    | No  |
| China       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes |
| Europe      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No  |
| Europe      | European List of Notified Chemical Substances (ELINCS)                 | No  |
| Japan       | Inventory of Existing and New Chemical Substances (ENCS)               | Yes |
| Korea       | Existing Chemicals List (ECL)  | Yes |
| New Zealand | New Zealand Inventory  | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes |
|             |  |     |

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

## 16. Other information, including date of preparation or last revision

Inventory name

22-June-2015 Issue date

Revision date Version # 01 **HMIS®** ratings Health: 1

United States & Puerto Rico

Flammability: 4

Physical hazard: 3

NFPA ratings



**Disclaimer** 

GOJO Industries, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

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On inventory (yes/no)\*

Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).