SECTION 1. IDENTIFICATION

Product name: GOJO® NATURAL* ORANGE™ Smooth Hand Cleaner

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: Skin-care
Restrictions on use: This is a personal care or cosmetic product 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
Not a hazardous substance or mixture.

GHS label elements
Not a hazardous substance or mixture.

Other hazards
None known.

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>Petroleum Distillates</td>
<td>64742-47-8</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>Limonene</td>
<td>5989-27-5</td>
<td>&gt;= 0.1 - &lt; 1</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. When symptoms persist or in all cases of doubt seek medical advice. |
| If inhaled | If inhaled, remove to fresh air. If symptoms persist, call a physician. |
| In case of skin contact | Wash with water and soap as a precaution. Get medical attention immediately 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 | If swallowed, DO NOT induce vomiting. Rinse mouth with water. Obtain medical attention. |
| Most important symptoms and effects, both acute and delayed | None known. |
| 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 | None known. |
| Hazardous combustion products | Carbon 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 | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. 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.
- Evacuate personnel to safe areas.
- 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.
- Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up:
- 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:
- For personal protection see section 8.
- Do not swallow.
- Avoid contact with eyes.
- Keep container closed when not in use.

Conditions for safe storage:
- Keep in properly labelled containers.
- 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>Petroleum Distillates</td>
<td>64742-47-8</td>
<td>TWA (Mist)</td>
<td>5 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 mg/m3 (as total hydrocarbon vapor)</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Mist)</td>
<td>5 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST (Mist)</td>
<td>10 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td>Limonene</td>
<td>5989-27-5</td>
<td>TWA</td>
<td>20 ppm</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

Personal protective equipment:

Respiratory protection:
- No personal respiratory protective equipment normally required.

Eye protection:
- No special protective equipment required.
  Wear face-shield and protective suit for abnormal processing problems.
**Skin and body protection**: No special protective equipment required.

**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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>opaque, white, grey</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>citrus</td>
</tr>
<tr>
<td><strong>Odour Threshold</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>6 - 8, (20 °C)</td>
</tr>
<tr>
<td><strong>Melting point/range</strong></td>
<td>11.4 °C</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>95 °C</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>&gt; 100 °C</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Upper explosion limit</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Lower explosion limit</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Relative vapour density</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>0.9758 g/cm³</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Water solubility</strong></td>
<td>soluble</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Thermal decomposition</strong></td>
<td>The substance or mixture is not classified self-reactive.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Viscosity, kinematic</strong></td>
<td>10000 - 45000 mm²/s (20 °C)</td>
</tr>
</tbody>
</table>
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  : No dangerous reaction known under conditions of normal use.
Incompatible materials  : Oxidizing agents
Hazardous decomposition products  : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation
Eye contact
Skin contact

Acute toxicity
Not classified based on available information.

Components:

Petroleum Distillates:
Acute oral toxicity  : LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity  : LC50 (Rat): > 5.3 mg/l
  Exposure time: 4 h
  Test atmosphere: dust/mist
  Assessment: The substance or mixture has no acute inhalation toxicity
  Remarks: Based on data from similar materials
Acute dermal toxicity  : LD50 (Rabbit): > 3,160 mg/kg
  Assessment: The substance or mixture has no acute dermal toxicity

Limonene:
Acute oral toxicity  : LD50 (Rat): > 2,000 mg/kg
  Assessment: The substance or mixture has no acute oral toxicity
  Remarks: Based on data from similar materials

Skin corrosion/irritation
Not classified based on available information.
Components:
Petroleum Distillates:
Assessment: Repeated exposure may cause skin dryness or cracking.

Limonene:
Species: Rabbit
Result: Skin irritation

Serious eye damage/eye irritation
Not classified based on available information.

Components:
Petroleum Distillates:
Species: Rabbit
Result: No eye irritation

Limonene:
Species: Rabbit
Result: No eye irritation

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

Product:
Assessment: Does not cause skin sensitisation.

Components:
Petroleum Distillates:
Test Type: Maximisation Test (GPMT)
Exposure routes: Skin contact
Species: Guinea pig
Result: negative
Remarks: Based on data from similar materials

Limonene:
Test Type: Local lymph node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse
Result: positive

Assessment: Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity
Not classified based on available information.

Components:
Petroleum Distillates:
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
  Result: negative

Genotoxicity in vivo : Test Type: Chromosomal aberration
  Test species: Rat
  Application Route: Intraperitoneal injection
Limonene:
Genotoxicity in vitro: Test Type: In vitro mammalian cell gene mutation test
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo: Test Type: Transgenic rodent somatic cell gene mutation assay
Test species: Rat
Application Route: Ingestion
Result: negative

Carcinogenicity
Not classified based on available information.

Components:
Limonene:
Species: Mouse
Application Route: Ingestion
Exposure time: 103 weeks
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.

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.

Reproductive toxicity
Not classified based on available information.

Components:
Petroleum Distillates:
Effects on fertility: Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development: Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

STOT - single exposure
Not classified based on available information.
STOT - repeated exposure
Not classified based on available information.

Repeated dose toxicity

Components:
Petroleum Distillates:
Species: Rat
NOAEL: > 10.4 mg/l
Application Route: inhalation (vapour)
Exposure time: 90 d
Remarks: Based on data from similar materials

Limonene:
Species: Rat
NOAEL: 600 mg/kg
Application Route: Ingestion
Exposure time: 13 w

Aspiration toxicity
Not classified based on available information.

Components:
Petroleum Distillates:
The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Limonene:
The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:
Petroleum Distillates:
Toxicity to fish: LL50 (Danio rerio (zebra fish)): > 250 mg/l
Exposure time: 96 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates: EL50 (Acartia tonsa): > 3,193 mg/l
Exposure time: 48 h
Test substance: Water Accommodated Fraction

Toxicity to algae: EL50 (Skeletonema costatum (marine diatom)): > 3,200 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction

NOELR (Skeletonema costatum (marine diatom)): 993 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOELR (Ceriodaphnia Dubia (water flea)): > 70 mg/l
Exposure time: 8 d
Test substance: Water Accommodated Fraction

Toxicity to bacteria: EC50: > 100 mg/l
Exposure time: 3 h

**Limonene:**
- Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 0.72 mg/l
  Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 0.36 mg/l
  Exposure time: 48 h
- Toxicity to algae: ErC50 (Desmodesmus subspicatus (green algae)): 150 mg/l
  Exposure time: 72 h
  Test substance: Water Accommodated Fraction
  Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity): 1

### Persistence and degradability

**Components:**

**Petroleum Distillates:**
- Biodegradability: Result: Readily biodegradable.
  Biodegradation: 82 %
  Exposure time: 24 d
  Method: OECD Test Guideline 301F

**Limonene:**
- Biodegradability: Result: Readily biodegradable.
  Biodegradation: 80 %
  Exposure time: 28 d
  Remarks: Based on data from similar materials

### Bioaccumulative potential

**Components:**

**Limonene:**
- Partition coefficient: n-octanol/water: log Pow: 4.38

### 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
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
Not regulated as a dangerous good
IMDG-Code
Not regulated as a dangerous good
National Regulations
49 CFR
Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.
SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.
SARA 311/312 Hazards : No SARA Hazards
SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) 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).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMS Intermediate or Final VOC's (40 CFR 60.489).
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

US State Regulations

Massachusetts Right To Know
Petroleum Distillates 64742-47-8 5 - 10 %

Pennsylvania Right To Know
Water (Aqua) 7732-18-5 90 - 100 %
Petroleum Distillates 64742-47-8 5 - 10 %

New Jersey Right To Know
Water (Aqua) 7732-18-5 90 - 100 %
Petroleum Distillates 64742-47-8 5 - 10 %

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:

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

Inventories
AIJS (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:

Health

1

0

0

Flammability

Special hazard.

Instability

HMIS III:

HEALTH

0

FLAMMABILITY

1

PHYSICAL HAZARD

0

Revision Date : 10/19/2016

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.