

**GOJO® NATURAL\* ORANGE™ Smooth Hand Cleaner**

|                |                              |                             |                                                                   |
|----------------|------------------------------|-----------------------------|-------------------------------------------------------------------|
| Version<br>1.2 | Revision Date:<br>06/05/2015 | MSDS Number:<br>37161-00003 | Date of last issue: 02/10/2015<br>Date of first issue: 12/16/2014 |
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**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 OH 44311

Telephone : 1 (330) 255-6000

Emergency telephone : 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 element**

Not a hazardous substance or mixture.

**Other hazards**

None known.

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

Substance / Mixture : Mixture

**Hazardous ingredients**

| Chemical Name | CAS-No. | Concentration (%) |
|---------------|---------|-------------------|
|---------------|---------|-------------------|


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|                                             |            |              |
|---------------------------------------------|------------|--------------|
| Distillates (petroleum), hydrotreated light | 64742-47-8 | >= 5 - < 10  |
| 1-Methyl 4-(1-Methylethenyl) Cyclohexene    | 5989-27-5  | >= 0.1 - < 1 |

**SECTION 4. FIRST AID MEASURES**

- |                                                             |                                                                                                                           |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| If inhaled                                                  | : If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur.                                            |
| In case of skin contact                                     | : Wash with water and soap as a precaution.<br>Get medical attention if symptoms occur.                                   |
| In case of eye contact                                      | : Flush eyes with water as a precaution.<br>Get medical attention if irritation develops and persists.                    |
| If swallowed                                                | : If swallowed, DO NOT induce vomiting.<br>Get medical attention if symptoms occur.<br>Rinse mouth thoroughly with water. |
| Most important symptoms and effects, both acute and delayed | : None known.                                                                                                             |
| Protection of first-aiders                                  | : No special precautions are necessary for first aid responders.                                                          |
| Notes to physician                                          | : Treat symptomatically and supportively.                                                                                 |

**SECTION 5. FIRE-FIGHTING MEASURES**

- |                                                |                                                                                                                                                                                                                                                   |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | : Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical                                                                                                                                                      |
| Unsuitable extinguishing media                 | : None known.                                                                                                                                                                                                                                     |
| Specific hazards during fire fighting          | : Exposure to combustion products may be a hazard to health.                                                                                                                                                                                      |
| Hazardous combustion products                  | : Carbon oxides                                                                                                                                                                                                                                   |
| Specific extinguishing methods                 | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for fire-fighters | : Wear self-contained breathing apparatus for firefighting if necessary.                                                                                                                                                                          |

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Use personal protective equipment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : Follow safe handling advice and personal protective equipment recommendations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Environmental precautions                                           | : Discharge into the environment must be avoided.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g. by containment or oil barriers).<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained.                                                                                                                                                                                                                                                                                                              |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material.<br>For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.<br>Clean up remaining materials from spill with suitable absorbent.<br>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.<br>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

**SECTION 7. HANDLING AND STORAGE**

- |                             |                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures          | : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.                                                                                                                           |
| Local/Total ventilation     | : Use only with adequate ventilation.                                                                                                                                                                     |
| Advice on safe handling     | : Avoid prolonged or repeated contact with skin.<br>Handle in accordance with good industrial hygiene and safety practice.<br>Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | : Keep in properly labeled containers.<br>Store in accordance with the particular national regulations.                                                                                                   |
| Materials to avoid          | : Do not store with the following product types:<br>Strong oxidizing agents                                                                                                                               |

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

| Ingredients                                 | CAS-No.    | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|---------------------------------------------|------------|----------------------------------|---------------------------------------------------|-----------|
| Distillates (petroleum), hydrotreated light | 64742-47-8 | TWA (Mist)                       | 5 mg/m3                                           | OSHA Z-1  |
|                                             |            | TWA (Mist)                       | 5 mg/m3                                           | NIOSH REL |
|                                             |            | ST (Mist)                        | 10 mg/m3                                          | NIOSH REL |

**Hazardous components without workplace control parameters**

| Ingredients                              | CAS-No.   |
|------------------------------------------|-----------|
| 1-Methyl 4-(1-Methylethenyl) Cyclohexene | 5989-27-5 |

**Engineering measures** : Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

**Personal protective equipment**

**Respiratory protection** : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Hand protection**

**Remarks** : For prolonged or repeated contact use protective gloves.  
Wash hands before breaks and at the end of workday.

**Eye protection** : Wear the following personal protective equipment:  
Safety glasses

**Skin and body protection** : Skin should be washed after contact.

**Hygiene measures** : Ensure that eye flushing systems and safety showers are located close to the working place.  
When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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|                                         |                                                             |
|-----------------------------------------|-------------------------------------------------------------|
| Appearance                              | : liquid                                                    |
| Color                                   | : white, gray, opaque                                       |
| Odor                                    | : citrus                                                    |
| Odor Threshold                          | : No data available                                         |
| pH                                      | : 5.0 - 8.0                                                 |
| Melting point/freezing point            | : No data available                                         |
| Initial boiling point and boiling range | : 95 °C                                                     |
| Flash point                             | : > 100 °C                                                  |
| Evaporation rate                        | : No data available                                         |
| Flammability (solid, gas)               | : Not applicable                                            |
| Upper explosion limit                   | : No data available                                         |
| Lower explosion limit                   | : No data available                                         |
| Vapor pressure                          | : No data available                                         |
| Relative vapor density                  | : No data available                                         |
| Density                                 | : 0.98 g/cm3                                                |
| Solubility(ies)<br>Water solubility     | : soluble                                                   |
| Partition coefficient: n-octanol/water  | : Not applicable                                            |
| Autoignition temperature                | : No data available                                         |
| Decomposition temperature               | : The substance or mixture is not classified self-reactive. |
| Viscosity<br>Viscosity, kinematic       | : 10,000 - 50,000 mm2/s (20 °C)                             |
| 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. |
|------------|------------------------------------------|

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Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Can react with strong oxidizing agents.

Conditions to avoid : None known.

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  
Ingestion  
Eye contact

**Acute toxicity**

Not classified based on available information.

**Ingredients:****Distillates (petroleum), hydrotreated light:**

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

**1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

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.

**Product:**

Result: No skin irritation

**Ingredients:****Distillates (petroleum), hydrotreated light:**

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Assessment: Repeated exposure may cause skin dryness or cracking.

**1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Species: Rabbit

Result: Skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Ingredients:****Distillates (petroleum), hydrotreated light:**

Species: Rabbit

Result: No eye irritation

**1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Species: Rabbit

Result: No eye irritation

**Respiratory or skin sensitization**

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

**Product:**

Assessment: Does not cause skin sensitization.

**Ingredients:****Distillates (petroleum), hydrotreated light:**

Test Type: Maximization Test (GPMT)

Routes of exposure: Skin contact

Species: Guinea pig

Result: negative

Remarks: Based on data from similar materials

**1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse

Result: positive

Assessment: Probability or evidence of skin sensitization in humans

**Germ cell mutagenicity**

Not classified based on available information.

**Ingredients:****Distillates (petroleum), hydrotreated light:**

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

Genotoxicity in vivo : Test Type: Chromosomal aberration  
Species: Rat

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Application Route: Intraperitoneal injection  
Result: negative  
Remarks: Based on data from similar materials

**1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Result: negative

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

**Carcinogenicity**

Not classified based on available information.

**Ingredients:****1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Species: Mouse  
Application Route: Ingestion  
Exposure time: 103 weeks  
Result: negative

**IARC**

No ingredient 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 ingredient 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 ingredient 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.

**Ingredients:****Distillates (petroleum), hydrotreated light:**

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 fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

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**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Repeated dose toxicity****Ingredients:****Distillates (petroleum), hydrotreated light:**

Species: Rat

NOAEL: &gt; 10.4 mg/l

Application Route: inhalation (vapor)

Exposure time: 90 d

Remarks: Based on data from similar materials

**1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Species: Rat

NOAEL: 600 mg/kg

Application Route: Ingestion

Exposure time: 13 w

**Aspiration toxicity**

Not classified based on available information.

**Ingredients:****Distillates (petroleum), hydrotreated light:**

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.

**1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

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.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:****Distillates (petroleum), hydrotreated light:**

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

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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

**1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

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****Ingredients:****Distillates (petroleum), hydrotreated light:**

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

**1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

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

**Bioaccumulative potential****Ingredients:****1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

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

**Mobility in soil**

No data available

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**Other adverse effects**

No data available

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

|                        |                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Waste from residues    | : Dispose of in accordance with local regulations.                                                                                |
| Contaminated packaging | : Dispose of as unused product.<br>Empty containers should be taken to an approved waste handling site for recycling or disposal. |

**SECTION 14. TRANSPORT INFORMATION****International Regulation****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know****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.

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**Pennsylvania Right To Know**

|                                             |            |            |
|---------------------------------------------|------------|------------|
| Water                                       | 7732-18-5  | 90 - 100 % |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | 5 - 10 %   |

**New Jersey Right To Know**

|                                             |            |            |
|---------------------------------------------|------------|------------|
| Water                                       | 7732-18-5  | 90 - 100 % |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | 5 - 10 %   |

**California Prop 65**

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

**The ingredients of this product are reported in the following inventories:**

REACH : All ingredients (pre-)registered or exempt.

TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

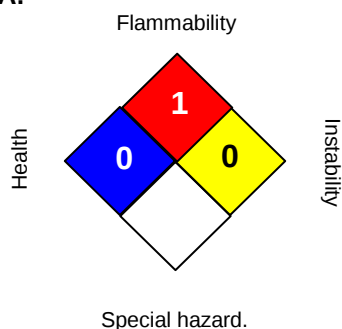
AICS : All ingredients listed or exempt.

**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)

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

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>0</b> |
| <b>FLAMMABILITY</b>    | <b>1</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

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

**Full text of other abbreviations**

|                                                                    |                                                                                                                                                                                     |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NIOSH REL                                                          | : USA. NIOSH Recommended Exposure Limits                                                                                                                                            |
| OSHA Z-1                                                           | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants                                                                                                  |
| NIOSH REL / TWA                                                    | : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek                                                                                         |
| NIOSH REL / ST                                                     | : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday                                                                                            |
| OSHA Z-1 / TWA                                                     | : 8-hour time weighted average                                                                                                                                                      |
| Sources of key data used to compile the Material Safety Data Sheet | : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a> |
| Revision Date                                                      | : 06/05/2015                                                                                                                                                                        |

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8