

| Version<br>1.5 | Revision Date:<br>02/17/2015 | MSDS Nu<br>16169-00  |   | Date of last issue: 02/10/2015<br>Date of first issue: 09/26/2014   |
|----------------|------------------------------|--|---|---|
| SECTIO         | N 1. IDENTIFICATION          |  |   |   |
| Proc           | duct name                    | : PURE<br>Foam   | LL® Advan   | ced Green Certified Instant Hand Sanitizer  |
| Man            | ufacturer or supplier's      | details  |   |   |
| Con            | npany name of supplier       | : GOJC   | Industries,   | Inc.  |
| Add            | ress                         |  | GOJO Plaza<br>OH 44311  | , Suite 500   |
| Tele           | phone                        | : 1 (330   | ) 255-6000  |   |
| Eme            | ergency telephone            | : 1-800-   | -424-9300   | CHEMTREC  |
| Rec            | ommended use of the d        | hemical ar   | nd restriction  | ons on use  |
| Rec            | ommended use                 | : Huma   | n hygiene b   | iocidal products  |
| Res            | trictions on use             | consu<br>forese<br>specif<br>exem<br>While<br>contai<br>prope<br>as we<br>spills.<br>emplo<br>intend | mers and o<br>eeable use.<br>ically define<br>of from the r<br>this materia<br>ns valuable<br>r use of the<br>II as unusua<br>This SDS s<br>yees and o<br>ed-use guid | I care or cosmetic product that is safe for<br>ther users under normal and reasonably<br>Cosmetics and consumer products,<br>ed by regulations around the world, are<br>requirement of an SDS for the consumer.<br>al is not considered hazardous, this SDS<br>information critical to the safe handling and<br>product for industrial workplace conditions<br>al and unintended exposures such as large<br>hould be retained and available for<br>ther users of this product. For specific<br>lance, please refer to the information<br>ackage or instruction sheet. |

### SECTION 2. HAZARDS IDENTIFICATION

| GHS Classification<br>Flammable liquids | : Category 3  |
|---|---------------|
| Eye irritation                          | : Category 2A |
| GHS Label element<br>Hazard pictograms  |               |
| Signal Word                             | : Warning     |

### SAFETY DATA SHEET



# PURELL® Advanced Green Certified Instant Hand Sanitizer Foam

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| Hazar          | d Statements                 |  | e liquid and vapor.<br>erious eye irritation.   |
| Preca          | utionary Statements          | No smoking.<br>P233 Keep cont<br>P241 Use explo<br>equipment.<br>P242 Use only r<br>P243 Take prec<br>P264 Wash skir<br>P280 Wear prot<br><b>Response:</b><br>P303 + P361 +<br>all contaminated<br>P305 + P351 +<br>for several minu<br>to do. Continue<br>P337 + P313 If<br>attention.<br><b>Storage:</b><br>P403 + P235 St<br><b>Disposal:</b> | y from heat/sparks/open flames/hot surfaces<br>tainer tightly closed.<br>sion-proof electrical/ ventilating/ lighting/<br>non-sparking tools.<br>autionary measures against static discharge.<br>a thoroughly after handling.<br>ective gloves/ eye protection/ face protection.<br>P353 IF ON SKIN (or hair): Take off immediately<br>d clothing. Rinse skin with water/shower.<br>P338 IF IN EYES: Rinse cautiously with water<br>tes. Remove contact lenses, if present and easy<br>rinsing.<br>eye irritation persists: Get medical advice/<br>ore in a well-ventilated place. Keep cool.<br>f contents/ container to an approved waste |

#### Other hazards

Vapors may form explosive mixture with air.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous ingredients

| Chemical Name | CAS-No. | Concentration (%) |
|---------------|---------|-------------------|
| Ethanol       | 64-17-5 | >= 50 - < 70      |
| Propan-2-ol   | 67-63-0 | >= 1 - < 5        |

#### SECTION 4. FIRST AID MEASURES

| General advice          | <ul> <li>In the case of accident or if you feel unwell, seek medical<br/>advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical<br/>advice.</li> </ul> |
|-------------------------|--|
| 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.  |



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|---|------------------------------|-----------------------------|---|--|--|--|--|
| In cas  | se of eye contact            | for at least 15             | remove contact lens, if worn.   |  |  |  |  |
| If swallowed  |                              | Get medical a               | : 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 |                              | : Causes seriou             | is eye irritation.  |  |  |  |  |
| Protection of first-aiders                                  |                              | and use the re              | onders should pay attention to self-protection,<br>ecommended personal protective equipment<br>ntial for exposure exists. |  |  |  |  |
| Notes   | to physician                 | : Treat symptor             | natically and supportively.   |  |  |  |  |

### SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media                   | : | Water spray<br>Alcohol-resistant foam<br>Dry chemical<br>Carbon dioxide (CO2)   |
|--|---|---|
| Unsuitable extinguishing media                 | : | High volume water jet   |
| Specific hazards during fire fighting          | : | Do not use a solid water stream as it may scatter and spread<br>fire.<br>Flash back possible over considerable distance.<br>Vapors may form explosive mixtures with air.<br>Exposure to combustion products may be a hazard to health.                |
| Hazardous combustion prod-<br>ucts             | : | Carbon oxides<br>Silicon oxides   |
| Specific extinguishing methods                 | : | Use extinguishing measures that are appropriate to local<br>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<br>so.<br>Evacuate area. |
| Special protective equipment for fire-fighters | : | In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.  |

### SECTION 6. ACCIDENTAL RELEASE MEASURES



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|---|----|---|--|---|---|--|--|--|
| Personal precautions,<br>protective equipment and<br>emergency procedures |    |   | :  | Remove all sources of ignition.<br>Use personal protective equipment.<br>Follow safe handling advice and personal protective<br>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<br>barriers).<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages<br>cannot be contained. |   |   |  |  |  |
|   |    | s and materials for<br>ment and cleaning up | :  | Suppress (knock<br>jet.<br>For large spills, pr<br>containment to ke<br>can be pumped, s<br>container.<br>Clean up remainin<br>absorbent.<br>Local or national r<br>disposal of this m<br>employed in the c<br>determine which r<br>Sections 13 and 1 | s should be used.<br>absorbent material.<br>down) gases/vapors/mists with a water spray<br>rovide diking or other appropriate<br>ep material from spreading. If diked material<br>tore recovered material in appropriate<br>ang materials from spill with suitable<br>regulations may apply to releases and<br>aterial, as well as those materials and items<br>leanup of releases. You will need to<br>egulations are applicable.<br>5 of this SDS provide information regarding<br>tional requirements. |  |  |  |

### SECTION 7. HANDLING AND STORAGE

| Technical measures          | : See Engineering measures under EXPOSURE<br>CONTROLS/PERSONAL PROTECTION section.   |
|-----------------------------|--|
| Local/Total ventilation     | : Use with local exhaust ventilation.<br>Use only in an area equipped with explosion proof exhaust ventilation.  |
| Advice on safe handling     | <ul> <li>Do not breathe vapors or spray mist.<br/>Do not swallow.</li> <li>Do not get in eyes.</li> <li>Avoid prolonged or repeated contact with skin.</li> <li>Handle in accordance with good industrial hygiene and safety practice.</li> <li>Non-sparking tools should be used.</li> <li>Keep container tightly closed.</li> <li>Keep away from heat and sources of ignition.</li> <li>Take precautionary measures against static discharges.</li> <li>Take care to prevent spills, waste and minimize release to the environment.</li> </ul> |
| Conditions for safe storage | : Keep in properly labeled containers.   |



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| Materia | ils to avoid   | Store in accordant<br>Keep away from<br>Do not store with<br>Strong oxidizing<br>Organic peroxide<br>Flammable solide<br>Pyrophoric liquid<br>Pyrophoric solide<br>Self-heating subs | vell-ventilated place.<br>nce with the particular national regulations.<br>heat and sources of ignition.<br>the following product types:<br>agents<br>es<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s<br>s |

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Ingredients | CAS-No. | Value type<br>(Form of<br>exposure) | Control<br>parameters /<br>Permissible<br>concentration | Basis     |
|-------------|---------|-------------------------------------|---|-----------|
| Ethanol     | 64-17-5 | TWA                                 | 1,000 ppm<br>1,900 mg/m3                                | NIOSH REL |
|             |         | TWA                                 | 1,000 ppm<br>1,900 mg/m3                                | OSHA Z-1  |
|             |         | STEL                                | 1,000 ppm   | ACGIH     |
| Propan-2-ol | 67-63-0 | TWA                                 | 200 ppm   | ACGIH     |
|             |         | STEL                                | 400 ppm   | ACGIH     |
|             |         | TWA                                 | 400 ppm<br>980 mg/m3                                    | NIOSH REL |
|             |         | ST                                  | 500 ppm<br>1,225 mg/m3                                  | NIOSH REL |
|             |         | TWA                                 | 400 ppm<br>980 mg/m3                                    | OSHA Z-1  |

#### Ingredients with workplace control parameters

#### Biological occupational exposure limits

| Ingredients | CAS-No. | Control parameters | Biological specimen | Sam-<br>pling<br>time                         | Permissible<br>concentratio<br>n | Basis        |
|-------------|---------|--------------------|---------------------|---|----------------------------------|--------------|
| Propan-2-ol | 67-63-0 | Acetone            | Urine               | End of<br>shift at<br>end of<br>work-<br>week | 40 mg/l                          | ACGIH<br>BEI |

**Engineering measures** 

: Minimize workplace exposure concentrations.

Use only in an area equipped with explosion proof exhaust ventilation.

Use with local exhaust ventilation.



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#### Personal protective equipment

| Respiratory protection      | General and local exhaust ventilation is recommended to<br>maintain vapor exposures below recommended limits. Wh<br>concentrations are above recommended limits or are<br>unknown, appropriate respiratory protection should be wor<br>Follow OSHA respirator regulations (29 CFR 1910.134) ar<br>use NIOSH/MSHA approved respirators. Protection provid<br>by air purifying respirators against exposure to any<br>hazardous chemical is limited. Use a positive pressure air<br>supplied respirator if there is any potential for uncontrolled<br>release, exposure levels are unknown, or any other<br>circumstance where air purifying respirators may not provi<br>adequate protection. | rn.<br>nd<br>led |
|-----------------------------|--|------------------|
| Hand protection<br>Material | Impervious gloves  |                  |
| Material                    | Flame retardant gloves   |                  |
| Remarks                     | Choose gloves to protect hands against chemicals depend<br>on the concentration specific to place of work. Breakthroug<br>time is not determined for the product. Change gloves ofte<br>For special applications, we recommend clarifying the<br>resistance to chemicals of the aforementioned protective<br>gloves with the glove manufacturer. Wash hands before<br>breaks and at the end of workday.  | gh               |
| Eye protection              | Wear the following personal protective equipment:<br>Safety goggles  |                  |
| Skin and body protection    | Select appropriate protective clothing based on chemical<br>resistance data and an assessment of the local exposure<br>potential.<br>Wear the following personal protective equipment:<br>Flame retardant antistatic protective clothing.<br>Skin contact must be avoided by using impervious protective<br>clothing (gloves, aprons, boots, etc).   | ive              |
| Hygiene measures            | Ensure that eye flushing systems and safety showers are<br>located close to the working place.<br>When using do not eat, drink or smoke.<br>Wash contaminated clothing before re-use.  |                  |

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | liquid |
|------------|---|--------|
| Color      | : | clear  |

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|-------------|---------------------|------------------------------|---|------------------------|---|
|             | Odor                |                              | : | alcohol-like           |   |
|             | Odor T              | hreshold                     | : | No data available      | )   |
|             | pН                  |                              | : | 6 - 9                  |   |
|             | Melting             | point/freezing point         | : | No data available      | )   |
|             | Initial b<br>range  | oiling point and boiling     | : | No data available      |   |
|             | Flash p             | oint                         | : | 26.00 °C               |   |
|             | Evapor              | ation rate                   | : | No data available      |   |
|             | Flamma              | ability (solid, gas)         | : | Not applicable         |   |
|             | Upper e             | explosion limit              | : | No data available      |   |
|             | Lower e             | explosion limit              | : | No data available      | )   |
|             | Vapor p             | pressure                     | : | No data available      | 9   |
|             | Relative            | e vapor density              | : | No data available      | )   |
|             | Density             | ,                            | : | 0.880 g/cm3            |   |
|             | Solubili<br>Wate    | ty(ies)<br>er solubility     | : | soluble                |   |
|             | Partitio<br>octanol | n coefficient: n-<br>/water  | : | Not applicable         |   |
|             | Autoigr             | ition temperature            | : | No data available      | )   |
|             | Decom               | position temperature         | : | The substance or       | r mixture is not classified self-reactive.                        |
|             | Viscosi<br>Visco    | ty<br>osity, kinematic       | : | 10 - 20 mm2/s (2       | 0 °C)   |
|             | Explosi             | ve properties                | : | Not explosive          |   |
|             | Oxidizir            | ng properties                | : | The substance or       | r 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 reac- | : | Flammable liquid and vapor.            |



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| tions          |                              |                             | orm explosive mixture with air.<br>a strong oxidizing agents.     |
| Condi          | itions to avoid              | : Heat, flames a            | and sparks.   |
| Incom          | patible materials            | : Oxidizing age             | nts   |
| Hazaı<br>produ | rdous decomposition<br>cts   | : No hazardous              | decomposition products are known.                                 |

#### SECTION 11. TOXICOLOGICAL INFORMATION

| Information on likely routes of exposure<br>Inhalation<br>Skin contact<br>Ingestion<br>Eye contact |   |  |  |  |  |  |
|--|---|--|--|--|--|--|
| Acute toxicity<br>Not classified based on available information.                                   |   |  |  |  |  |  |
| Product:   |   |  |  |  |  |  |
| Acute oral toxicity  | : | Acute toxicity estimate: > 5,000 mg/kg<br>Method: Calculation method   |  |  |  |  |
| Ingredients:   |   |  |  |  |  |  |
| Ethanol:   |   | $I D = 0$ (Bot): $\Sigma = 0.00 \text{ mg/kg}$                         |  |  |  |  |
| Acute oral toxicity  | • | LD50 (Rat): > 5,000 mg/kg  |  |  |  |  |
| Acute inhalation toxicity  | : | LC50 (Rat): 124.7 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapor |  |  |  |  |
| Propan-2-ol:   |   |  |  |  |  |  |
| Acute oral toxicity  | : | LD50 (Rat): > 5,000 mg/kg  |  |  |  |  |
| Acute inhalation toxicity  | : | LC50 (Rat): 72.6 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapor  |  |  |  |  |
| Acute dermal toxicity  | : | LD50 (Rat): > 5,000 mg/kg  |  |  |  |  |

#### Skin corrosion/irritation

Not classified based on available information.

### Product:

Result: No skin irritation

### Ingredients:

**Ethanol:** Species: Rabbit Method: OECD Test Guideline 404



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Result: No skin irritation

#### Propan-2-ol:

Species: Rabbit Result: No skin irritation

#### Serious eye damage/eye irritation

Causes serious eye irritation.

### Ingredients:

**Ethanol:** Species: Rabbit Result: Irritation to eyes, reversing within 21 days Method: OECD Test Guideline 405

#### Propan-2-ol:

Species: Rabbit Result: Irritation to eyes, reversing within 21 days

#### 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:

**Ethanol:** Test Type: Local lymph node assay (LLNA) Routes of exposure: Skin contact Species: Mouse Result: negative

#### Propan-2-ol:

Test Type: Buehler Test Routes of exposure: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative

#### Germ cell mutagenicity

Not classified based on available information.

### Ingredients:

| Ethanol:<br>Genotoxicity in vitro | : | Test Type: In vitro mammalian cell gene mutation test<br>Result: negative                                      |
|-----------------------------------|---|--|
| Genotoxicity in vivo              | : | Test Type: Rodent dominant lethal test (germ cell) (in vivo)<br>Species: Mouse<br>Application Route: Ingestion |



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|--|--|---|--|--|--|--|
|  |  | Result: negative  | )  |  |  |  |
| Propa                                      | an-2-ol:   |   |  |  |  |  |
| Geno                                       | toxicity in vitro  | : Test Type: Bact<br>Result: negative   | erial reverse mutation assay (AMES)<br>e   |  |  |  |
| Geno                                       | toxicity in vivo   | cytogenetic ass<br>Species: Mouse<br>Application Rou  | <ul> <li>Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)</li> <li>Species: Mouse</li> <li>Application Route: Intraperitoneal injection</li> <li>Result: negative</li> </ul> |  |  |  |
| Carci                                      | nogenicity   |   |  |  |  |  |
|  | assified based on availa   | ble information.  |  |  |  |  |
| Propa<br>Speci<br>Applic<br>Expos<br>Metho | dients:<br>an-2-ol:<br>es: Rat<br>cation Route: inhalation (<br>sure time: 104 weeks<br>od: OECD Test Guideling<br>t: negative |   |  |  |  |  |
| IARC                                       | :  |   | is product present at levels greater than or<br>entified as probable, possible or confirmed<br>by IARC.  |  |  |  |
| OSH  | A  | No ingredient of this product present at levels greater than of equal to 0.1% is identified as a carcinogen or potential carcingen by OSHA. |  |  |  |  |
| NTP  |  |   | is product present at levels greater than or<br>entified as a known or anticipated carcinoger  |  |  |  |
| Repro                                      | oductive toxicity  |   |  |  |  |  |
| Not cl                                     | assified based on availa   | ble information.  |  |  |  |  |
| Ethar                                      | dients:<br>iol:<br>is on fertility   | Species: Mouse<br>Application Rou   | te: Ingestion<br>Test Guideline 416  |  |  |  |
|  | <b>an-2-ol:</b><br>is on fertility   | : Test Type: Two<br>Species: Rat<br>Application Rou<br>Result: negative   |  |  |  |  |
|  |  |   |  |  |  |  |



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Species: Rat Application Route: Ingestion Result: negative

#### STOT-single exposure

Not classified based on available information.

### Ingredients:

**Propan-2-ol:** Assessment: May cause drowsiness or dizziness.

#### STOT-repeated exposure

Not classified based on available information.

#### **Repeated dose toxicity**

#### Ingredients:

Ethanol: Species: Rat NOAEL: 2,400 mg/kg Application Route: Ingestion Exposure time: 2 y

#### Propan-2-ol:

Species: Rat NOAEL: 5000 ppm Application Route: inhalation (vapor) Exposure time: 104 w Method: OECD Test Guideline 413

#### Aspiration toxicity

Not classified based on available information.

#### **SECTION 12. ECOLOGICAL INFORMATION**

| Ecotoxicity   |   |
|---|---|
| Ingredients:<br>Ethanol:<br>Toxicity to fish        | : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l<br>Exposure time: 96 h                                  |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l<br>Exposure time: 48 h  |
| Toxicity to algae                                   | : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to daphnia and other aquatic invertebrates | : NOEC (Daphnia magna (Water flea)): 9.6 mg/l<br>Exposure time: 9 d   |

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| (Chro                                   | nic toxicity)                                      |   |   |   |  |  |
| Toxic                                   | ity to bacteria                                    | :   | EC50 (Photobac<br>Exposure time: (  | terium phosphoreum): 32.1 mg/l<br>).25 h                          |  |  |
| <b>Propan-2-ol:</b><br>Toxicity to fish |  | :   | : LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l<br>Exposure time: 96 h |   |  |  |
|   | ity to daphnia and other<br>ic invertebrates       | : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l<br>Exposure time: 24 h |   |   |  |  |
| Toxic                                   | ity to algae                                       | :   | ErC50 (Scenede<br>mg/l<br>Exposure time: 8  | esmus quadricauda (Green algae)): > 1,800<br>3 d                  |  |  |
| Toxic                                   | ity to bacteria                                    | :   | EC50 (Pseudom<br>Exposure time: 1   | onas putida): > 1,050 mg/l<br>l6 h                                |  |  |
| Persi                                   | stence and degradabili                             | ity   |   |   |  |  |
| Ingre                                   | dients:  |   |   |   |  |  |
| <b>Ethai</b><br>Biode                   | <b>nol:</b><br>gradability                         | :   | Result: Readily I<br>Biodegradation:<br>Exposure time: 2                          | 84 %  |  |  |
|   | <b>an-2-ol:</b><br>gradability                     | :   | Result: rapidly d   | egradable   |  |  |
| Bioad                                   | ccumulative potential                              |   |   |   |  |  |
| Ingre                                   | dients:  |   |   |   |  |  |
|   | <b>101:</b><br>ion coefficient: n-<br>ol/water     | :   | log Pow: -0.35  |   |  |  |
| Partit                                  | <b>an-2-ol:</b><br>ion coefficient: n-<br>ol/water | :   | log Pow: 0.05   |   |  |  |
|   | <b>lity in soil</b><br>ata available               |   |   |   |  |  |
|   | r adverse effects                                  |   |   |   |  |  |
|   | ata available                                      |   |   |   |  |  |

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues

: Dispose of in accordance with local regulations.



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| Contaminated packaging  |  | : Dispose of as unused product.<br>Empty containers should be taken to an approved waste<br>handling site for recycling or disposal.<br>Do not burn, or use a cutting torch on, the empty drum.  |   |  |
| ECTION  | 14. TRANSPORT INF  | ORMATION   |   |  |
| Interr  | national Regulation  |  |   |  |
| Prope<br>Class<br>Packi<br>Label<br>IATA<br>UN/IE<br>Prope<br>Class<br>Packi<br>Label<br>Packi<br>aircra<br>Packi | umber<br>er shipping name<br>ng group<br>s<br><b>-DGR</b><br>o No.<br>er shipping name<br>ng group<br>s<br>ng instruction (cargo | <ul> <li>: UN 1987</li> <li>: ALCOHOLS<br/>(Ethanol, Pro</li> <li>: 3</li> <li>: III</li> <li>: 3</li> <li>: UN 1987</li> <li>: Alcohols, n.c.<br/>(Ethanol, Pro</li> <li>: 3</li> <li>: III</li> <li>: Flammable I</li> <li>: 366</li> <li>: 355</li> </ul> | opan-2-ol)<br>o.s.<br>opan-2-ol)                                  |  |
| IMDG<br>UN nu<br>Prope<br>Class<br>Packi<br>Label<br>EmS  | <b>-Code</b><br>umber<br>er shipping name<br>ng group<br>s   | : UN 1987<br>: ALCOHOLS<br>(Ethanol, Pro<br>: 3<br>: III<br>: 3<br>: F-E, S-D<br>: no  |   |  |

## Domestic regulation

| <b>49 CFR</b><br>UN/ID/NA number<br>Proper shipping name | : UN 1987<br>: ALCOHOLS, N.O.S. |
|--|---------------------------------|
| Class  | : 3                             |
| Packing group  | : III                           |



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|-----------------------|----------------|--------------------------------|---------------------------------|
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| Label<br>ERG<br>Marin | -              | : FLAMMABLE L<br>: 127<br>: no | IQUID                           |

#### **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 Haz   | zards :  | Fire Hazard<br>Acute Health Hazard  |             |           |  |
|--|--|---|-------------|-----------|--|
| SARA 302   | :  | No chemicals in this mater<br>requirements of SARA Title                            |             | reporting |  |
| SARA 313   | :  | The following components established by SARA Title                                  |             | ng levels |  |
|  |  | Propan-2-ol   | 67-63-0     | 3.4086 %  |  |
| US State Regulation  | US State Regulations   |   |             |           |  |
| Pennsylvania Rigl  | ht To Know   |   |             |           |  |
|  | hanol  |   | 64-17-5     | 50 - 70 % |  |
| W  | ater   |   | 7732-18-5   | 30 - 50 % |  |
| Pr   | opan-2-ol  |   | 67-63-0     | 1 - 5 %   |  |
| New Jersey Right To Know   |  |   |             |           |  |
| Et   | hanol  |   | 64-17-5     | 50 - 70 % |  |
| W  | ater   |   | 7732-18-5   | 30 - 50 % |  |
| Pr   | opan-2-ol  |   | 67-63-0     | 1 - 5 %   |  |
| Dimethyl Siloxan   |  |   | 102783-01-7 | 1 - 5 %   |  |
|  | Dimethyl(propyl(polyethylene<br>oxide))hydroxy)siloxy-terminated |   |             |           |  |
| California Prop 65   | i  | This product does not cont<br>State of California to cause<br>reproductive defects. |             |           |  |
| The ingredients of this product are reported in the following inventories: |  |   |             |           |  |

AICS

: All ingredients listed or exempt.

#### Inventories

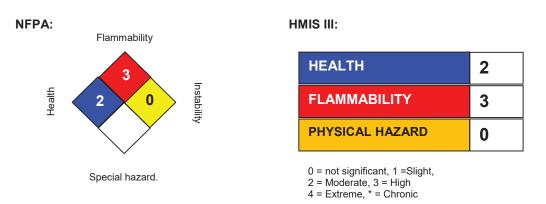


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AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**





### Full text of other abbreviations

| ACGIH<br>ACGIH BEI<br>NIOSH REL<br>OSHA Z-1                              | : | USA. ACGIH Threshold Limit Values (TLV)<br>ACGIH - Biological Exposure Indices (BEI)<br>USA. NIOSH Recommended Exposure Limits<br>USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-<br>its for Air Contaminants |
|--|---|---|
| ACGIH / TWA  | : | 8-hour, time-weighted average   |
| ACGIH / STEL   | : | Short-term exposure limit   |
| 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<br>compile the Material Safety<br>Data Sheet | : | Internal technical data, data from raw material SDSs, OECD<br>eChem Portal search results and European Chemicals Agen-<br>cy, http://echa.europa.eu/  |
| Revision Date  | : | 02/17/2015  |

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, in-



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cluding an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8