

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **Cleansmart Odor-Rific Lively Lemon**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses odor neutralizer

#### 1.3 Details of the supplier of the safety data sheet

Cleansmart Technologies  
P. O. Box 2126  
Loveland, Co. 80539  
877-701-5271

#### 1.4 Emergency telephone number

Emergency information service **USA 1.800.535.5053, INTL 1.352.323.3500**  
24 hour emergency telephone number.

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

**Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

| Annex | Hazard class and category         | Hazard statement code(s) |      |
|-------|-----------------------------------|--------------------------|------|
| A.11  | acute toxicity (inhal.)           | Cat. 3 (Acute Tox. 3)    | H331 |
| A.2   | skin corrosion/irritation         | Cat. 2 (Skin Irrit. 2)   | H315 |
| A.3   | serious eye damage/eye irritation | Cat. 1 (Eye Dam. 1)      | H318 |
| A.6   | carcinogenicity                   | Cat. 1A (Carc. 1A)       | H350 |
| B.6   | flammable liquid                  | Cat. 3 (Flam. Liq. 3)    | H226 |

#### Remarks

For full text of H-phrases: see SECTION 16.

#### Hazards not otherwise classified

Harmful to aquatic life (GHS category 3: aquatic toxicity - acute).

#### The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

#### 2.2 Label elements

**Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

**Signal word** **danger**

#### Pictograms

GHS02, GHS05,  
GHS06, GHS08



#### Hazard statements

H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H331 Toxic if inhaled.  
H350 May cause cancer.

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

### Precautionary statements

#### Precautionary statements - prevention

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statements - response

If on skin: Wash with plenty of water.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a poison center/doctor.  
Specific treatment (see on this label).  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.

#### Precautionary statements - storage

Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.

#### Precautionary statements - disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Hazardous ingredients for labelling

Alcohols, C9-11 ethoxylated, ethanol, alkyl dimethyl ethylbenzyl ammonium chloride, quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides

### 2.3 Other hazards

There is no additional information.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

| Name of substance           | Identifier           | Wt%      | Hazard class and category                                | Hazard statement     | Notes |
|-----------------------------|----------------------|----------|--|----------------------|-------|
| Alcohols, C9-11 ethoxylated | CAS No<br>68439-46-3 | 3 - < 12 | A.10 Acute Tox. 4<br>A.1D Acute Tox. 4<br>A.3 Eye Dam. 1 | H302<br>H312<br>H318 |       |

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

| Name of substance  | Identifier   | Wt%       | Hazard class and category                               |  | Hazard statement   | Notes        |
|--|--|-----------|---|--|--|--------------|
| Propan-2-ol  | CAS No<br>67-63-0<br><br>EC No<br>200-661-7                  | 3 - < 12  | A.3<br>A.8D<br>B.6                                      | Eye Irrit. 2<br>STOT SE 3<br>Flam. Liq. 2  | H319<br>H336<br>H225   |              |
| quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides | CAS No<br>68391-01-5<br><br>EC No<br>264-151-6               | 1 - < 3   | A.10<br>A.1D<br>A.11<br>A.2<br>A.3                      | Acute Tox. 4<br>Acute Tox. 3<br>Acute Tox. 1<br>Skin Corr. 1B<br>Eye Dam. 1  | H302<br>H311<br>H330<br>H314<br>H318                         |              |
| alkyl dimethyl ethylbenzyl ammonium chloride                         | CAS No<br>85409-23-0<br>68956-79-6<br><br>EC No<br>287-090-7 | 1 - < 3   | A.10<br>A.1D<br>A.11<br>A.2<br>A.3                      | Acute Tox. 4<br>Acute Tox. 3<br>Acute Tox. 1<br>Skin Corr. 1B<br>Eye Dam. 1  | H302<br>H311<br>H330<br>H314<br>H318                         |              |
| ethanol  | CAS No<br>64-17-5<br><br>EC No<br>200-578-6                  | 0.1 - < 1 | A.10<br>A.1D<br>A.11<br>A.2<br>A.3<br>A.6<br>A.8<br>B.6 | Acute Tox. 3<br>Acute Tox. 3<br>Acute Tox. 3<br>Skin Irrit. 2<br>Eye Irrit. 2<br>Carc. 1A<br>STOT SE 1<br>Flam. Liq. 2 | H301<br>H311<br>H331<br>H315<br>H319<br>H350<br>H370<br>H225 | *<br>IARC: 1 |

### Notes

\*: Only carcinogenic in alcoholic beverages.

IARC: 1: IARC group 1: carcinogenic to humans (International Agency for Research on Cancer).

For full text of abbreviations: see SECTION 16. Exact percentage of ingredients is withheld as a trade secret.

## SECTION 4: First-aid measures

### 4.1

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

#### Following eye contact

Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

##### Hazardous combustion products

nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### For non-emergency personnel

Remove persons to safety.

##### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

##### Advices on how to contain a spill

Covering of drains.

##### Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

##### Appropriate containment techniques

Use of adsorbent materials.

##### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Recommendations

##### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

##### Warning

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

##### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Managing of associated risks

##### • Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

##### • Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

##### Incompatible substances or mixtures

Observe compatible storage of chemicals.

##### Control of the effects

##### Protect against external exposure, such as

frost

##### Consideration of other advice

##### Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. Use local and general ventilation. Ground/bond container and receiving equipment.

##### Packaging compatibilities

Only packagings which are approved (e.g. acc. to DOT) may be used.

#### 7.3 Specific end use(s)

See section 16 for a general overview.

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### National limit values

##### Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent           | CAS No  | Notation | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Source           |
|---------|-------------------------|---------|----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|------------------|
| US      | ethyl alcohol (ethanol) | 64-17-5 |          | PEL        | 1,000     | 1,900                    |            |                           |                 |                                | 29 CFR 1910.1000 |
| US      | isopropyl alcohol       | 67-63-0 |          | PEL        | 400       | 980                      |            |                           |                 |                                | 29 CFR 1910.1000 |

##### Notation

|           |   |
|-----------|---|
| Ceiling-C | Ceiling value is a limit value above which exposure should not occur.   |
| STEL      | Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified).                   |
| TWA       | Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified). |

##### Relevant DNELs/DMELs/PNECs and other threshold levels

No data available.

#### 8.2 Exposure controls

##### Appropriate engineering controls

General ventilation.

##### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection.

##### Skin protection

###### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

###### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

### SECTION 9: Physical and chemical properties

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

##### Appearance

|                |              |
|----------------|--------------|
| Physical state | liquid       |
| Color          | light yellow |
| Odor           | citrus       |

##### Other physical and chemical parameters

|   |   |
|---|---|
| pH (value)                              | 6.5 – 7.5 (25 °C)                               |
| Melting point/freezing point            | not determined                                  |
| Initial boiling point and boiling range | 82.5 °C   |
| Flash point                             | 47 °C at 101.3 kPa 117 °F at 1 atm (closed cup) |
| Evaporation rate                        | not determined                                  |
| Flammability (solid, gas)               | not relevant (fluid)                            |
| Explosive limits                        | not determined                                  |
| Vapor pressure                          | 4.3 kPa at 20 °C                                |
| Density                                 | 0.98 – 1.02 g/cm <sup>3</sup>                   |
| Solubility(ies)                         |   |
| Water solubility                        | miscible in any proportion                      |
| Partition coefficient                   |   |
| n-octanol/water (log KOW)               | This information is not available.              |
| Auto-ignition temperature               | 311 °C  |
| Viscosity                               | not determined                                  |
| Explosive properties                    | none  |
| Oxidizing properties                    | none  |
|   | There is no additional information.             |

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

##### • if heated

risk of ignition

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

##### Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

### 10.5 Incompatible materials

oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

##### Acute toxicity

Toxic if inhaled.

##### Acute toxicity estimate (ATE)

inhalation: vapor 2.082 mg/l/4h  
inhalation: dust/mist 0.5627 mg/l/4h

##### Acute toxicity of components of the mixture

| Name of substance  | CAS No                   | Exposure route        | ATE            |
|--|--------------------------|-----------------------|----------------|
| Alcohols, C9-11 ethoxylated  | 68439-46-3               | oral                  | 1,200 mg/kg    |
| Alcohols, C9-11 ethoxylated  | 68439-46-3               | dermal                | 2,000 mg/kg    |
| quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides | 68391-01-5               | oral                  | 304.5 mg/kg    |
| quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides | 68391-01-5               | dermal                | 930 mg/kg      |
| quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides | 68391-01-5               | inhalation: vapor     | 0.05 mg/l/4h   |
| quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides | 68391-01-5               | inhalation: dust/mist | 0.0135 mg/l/4h |
| alkyl dimethyl ethylbenzyl ammonium chloride                         | 85409-23-0<br>68956-79-6 | oral                  | 304.5 mg/kg    |
| alkyl dimethyl ethylbenzyl ammonium chloride                         | 85409-23-0<br>68956-79-6 | dermal                | 930 mg/kg      |
| alkyl dimethyl ethylbenzyl ammonium chloride                         | 85409-23-0<br>68956-79-6 | inhalation: vapor     | 0.05 mg/l/4h   |
| alkyl dimethyl ethylbenzyl ammonium chloride                         | 85409-23-0<br>68956-79-6 | inhalation: dust/mist | 0.0135 mg/l/4h |
| ethanol  | 64-17-5                  | oral                  | 100 mg/kg      |
| ethanol  | 64-17-5                  | dermal                | 300 mg/kg      |
| ethanol  | 64-17-5                  | inhalation: vapor     | 3 mg/l/4h      |



# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

### Summary of evaluation of the CMR properties

May cause cancer.

Shall not be classified as germ cell mutagenic.

Shall not be classified as a reproductive toxicant.

### Carcinogenicity

- National Toxicology Program (United States): none of the ingredients are listed
- IARC Monographs

| Name of substance | Name acc. to inventory | CAS No  | wt%    | Classification | Remarks                | Number                     |
|-------------------|------------------------|---------|--------|----------------|------------------------|----------------------------|
| Propan-2-ol       | isopropyl alcohol      | 67-63-0 | 4.798  | 3              |                        | Volume<br>15, Sup 7,<br>71 |
| ethanol           | ethanol                | 64-17-5 | 0.1439 | 1              | in alcoholic beverages | Volume<br>96, 100E         |

### Legend

- 1 Carcinogenic to humans.  
3 Not classifiable as to carcinogenicity in humans.

- OSHA Carcinogens (United States) none of the ingredients are listed

### Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

Harmful to aquatic life.

#### Aquatic toxicity (acute)

Shall not be classified as hazardous to the aquatic environment.

#### Aquatic toxicity (acute) of components of the mixture

| Name of substance           | CAS No     | Endpoint | Value       | Species               | Exposure time |
|-----------------------------|------------|----------|-------------|-----------------------|---------------|
| Alcohols, C9-11 ethoxylated | 68439-46-3 | LC50     | 7 mg/l      | fish                  | 96 h          |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | EC50     | 2.5 mg/l    | aquatic invertebrates | 48 h          |
| Propan-2-ol                 | 67-63-0    | LC50     | 10,000 mg/l | fish                  | 96 h          |
| ethanol                     | 64-17-5    | LC50     | 14.2 g/l    | fish                  | 96 h          |
| ethanol                     | 64-17-5    | EC50     | 12.9 g/l    | fish                  | 96 h          |

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

### Aquatic toxicity (chronic)

#### Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No  | Endpoint | Value        | Species               | Exposure time |
|-------------------|---------|----------|--------------|-----------------------|---------------|
| Propan-2-ol       | 67-63-0 | LC50     | >10,000 mg/l | aquatic invertebrates | 24 h          |
| ethanol           | 64-17-5 | LC50     | >0.08 mg/l   | fish                  | 42 d          |
| ethanol           | 64-17-5 | EC50     | 22.6 g/l     | algae                 | 10 d          |
| ethanol           | 64-17-5 | ErC50    | 675 mg/l     | algae                 | 4 d           |

### 12.2 Persistence and degradability

#### Degradability of components of the mixture

| Name of substance | CAS No  | Process          | Degradation rate | Time |
|-------------------|---------|------------------|------------------|------|
| Propan-2-ol       | 67-63-0 | oxygen depletion | 53 %             | 5 d  |
| ethanol           | 64-17-5 | oxygen depletion | 74 %             | 5 d  |

### 12.3 Bioaccumulative potential

Data are not available.

#### Bioaccumulative potential of components of the mixture

| Name of substance           | CAS No     | BCF | Log KOW                      | BOD5/COD |
|-----------------------------|------------|-----|------------------------------|----------|
| Alcohols, C9-11 ethoxylated | 68439-46-3 |     | 3.75                         |          |
| ethanol                     | 64-17-5    |     | -0.35 (pH value: 7.4, 24 °C) |          |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Waste treatment-relevant information

Solvent reclamation/regeneration.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

### SECTION 14: Transport information

|             |  |  |
|-------------|--|--|
| <b>14.1</b> | UN number  | <b>1992</b>  |
| <b>14.2</b> | UN proper shipping name  | <b>Flammable liquid, toxic, n.o.s.</b>                                       |
| <b>14.3</b> | Transport hazard class(es)<br>Class<br>Subsidiary risk(s)  | 3 (flammable liquids)<br>6.1 (acute toxicity)                                |
| <b>14.4</b> | Packing group  | III (substance presenting low danger)  |
| <b>14.5</b> | Environmental hazards  | none (non-environmentally hazardous acc. to the dangerous goods regulations) |
| <b>14.6</b> | Special precautions for user<br>There is no additional information.  |  |
| <b>14.7</b> | Transport in bulk according to Annex II of MARPOL and the IBC Code<br>The cargo is not intended to be carried in bulk. |  |

#### Information for each of the UN Model Regulations

##### • Transport of dangerous goods by road or rail (49 CFR US DOT)

|                      |                                 |
|----------------------|---------------------------------|
| Index number         | 1992                            |
| Proper shipping name | Flammable liquid, toxic, n.o.s. |
| Class                | 3                               |
| Packing group        | III                             |
| Danger label(s)      | 3+6.1                           |



|                         |                        |
|-------------------------|------------------------|
| Special provisions (SP) | B1, IB3, T7, TP1, TP28 |
| ERG No                  | 131                    |

##### • International Maritime Dangerous Goods Code (IMDG)

|                      |                                 |
|----------------------|---------------------------------|
| UN number            | 1992                            |
| Proper shipping name | FLAMMABLE LIQUID, TOXIC, N.O.S. |
| Class                | 3                               |
| Subsidiary risk(s)   | 6.1                             |
| Packing group        | III                             |
| Danger label(s)      | 3+6.1                           |



|                          |          |
|--------------------------|----------|
| Special provisions (SP)  | 223, 274 |
| Excepted quantities (EQ) | E1       |
| Limited quantities (LQ)  | 5 L      |
| EmS                      | F-E, S-D |
| Stowage category         | A        |

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

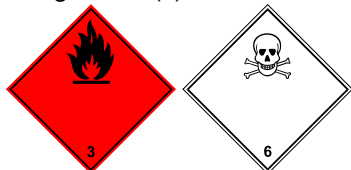
## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

### • International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 1992  
Proper shipping name Flammable liquid, toxic, n.o.s.  
Class 3  
Subsidiary risk(s) 6.1  
Packing group III  
Danger label(s) 3+6.1



Special provisions (SP) A3  
Excepted quantities (EQ) E1  
Limited quantities (LQ) 2 L

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

##### Toxic Substance Control Act (TSCA)

all ingredients are listed or exempt from listing

##### Superfund Amendment and Reauthorization Act (SARA TITLE III)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

Specific Toxic Chemical Listings (EPCRA Section 313)

| Name of substance | CAS No  | Wt%   | Remarks  | Effective date |
|-------------------|---------|-------|--|----------------|
| Propan-2-ol       | 67-63-0 | 4.798 | Only persons who manufacture by the strong acid process are subject, no supplier notification. | 1986-12-31     |

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

none of the ingredients are listed

#### Clean Air Act

none of the ingredients are listed

#### Drug precursors, Controlled Substances Act (21 U.S.C. § 802)

none of the ingredients are listed

#### Industry or sector specific available guidance(s)

##### NPCA-HMIS® III

Hazardous Materials Identification System (American Coatings Association)

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

| Category            | Rating | Description   |
|---------------------|--------|---|
| Chronic             | *      | Chronic (long-term) health effects may result from repeated overexposure.   |
| Health              | 3      | Major injury likely unless prompt action is taken and medical treatment is given.   |
| Flammability        | 2      | Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.                                       |
| Physical hazard     | 0      | Material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive. |
| Personal protection | -      |   |

### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)

| Category       | Degree of hazard | Description   |
|----------------|------------------|---|
| Flammability   | 2                | Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. |
| Health         | 3                | Material that, under emergency conditions, can cause serious or permanent injury.                                     |
| Instability    | 0                | Material that is normally stable, even under fire conditions.   |
| Special hazard |                  |   |

### Right to Know Hazardous Substance List

| Name of substance | CAS No  | Remarks | Classifications      |
|-------------------|---------|---------|----------------------|
| Propan-2-ol       | 67-63-0 |         | F3                   |
| ethanol           | 64-17-5 |         | CA<br>MU<br>TE<br>F3 |

#### Legend

CA Carcinogenic.  
F3 Flammable - Third Degree.  
MU Mutagenic.  
TE Teratogenic.

### Proposition 65 List of chemicals

| Name of substance | CAS No  | Wt%    | Remarks                | Type of the toxicity |
|-------------------|---------|--------|------------------------|----------------------|
| ethanol           | 64-17-5 | 0.1439 | in alcoholic beverages | cancer               |
| ethanol           | 64-17-5 | 0.1439 | in alcoholic beverages | developmental        |

### Relevant European Union (EU) safety, health and environmental provisions

Classification according to GHS (1272/2008/EC, CLP)

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

| Hazard class                      | Category | Hazard class and category |
|-----------------------------------|----------|---------------------------|
| flammable liquid                  | 3        | (Flam. Liq. 3)            |
| acute toxicity (inhal.)           | 3        | (Acute Tox. 3)            |
| skin corrosion/irritation         | 2        | (Skin Irrit. 2)           |
| serious eye damage/eye irritation | 1        | (Eye Dam. 1)              |

### National inventories

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| CA      | DSL        | not all ingredients are listed |
| EU      | REACH Reg. | not all ingredients are listed |

### Legend

DSL Domestic Substances List (DSL).  
REACH Reg. REACH registered substances.

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

### 16.1 Indication of changes (revised safety data sheet)

| Section | Former entry (text/value)  | Actual entry (text/value)   | Safety-relevant |
|---------|--|---|-----------------|
| 2.1     |  | Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): change in the listing (table)   | yes             |
| 2.1     |  | Hazards not otherwise classified: change in the listing (table)   | yes             |
| 2.2     |  | Pictograms: change in the listing (table)   | yes             |
| 2.2     |  | Hazard statements: change in the listing (table)  | yes             |
| 2.2     |  | Precautionary statements - prevention: change in the listing (table)  | yes             |
| 2.2     |  | Precautionary statements - response: change in the listing (table)  | yes             |
| 2.2     |  | Precautionary statements - storage: change in the listing (table)   | yes             |
| 2.2     | Hazardous ingredients for labelling: Alcohols, C9-11 ethoxylated   | Hazardous ingredients for labelling: Alcohols, C9-11 ethoxylated, ethanol, alkyl dimethyl ethylbenzyl ammonium chloride, quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides                               | yes             |
| 3.2     |  | Description of the mixture: change in the listing (table)   | yes             |
| 4.1     | Following inhalation: Provide fresh air.   | Following inhalation: In case of respiratory tract irritation, consult a physician. Provide fresh air.  | yes             |
| 6.4     | Reference to other sections: Hazardous combustion products: see section 5. Personal precautions: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13. | Reference to other sections: Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.                   | yes             |
| 7.2     | Ventilation requirements: Use local and general ventilation. Ground/bond container and receiving equipment.  | Ventilation requirements: Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. Use local and general ventilation. Ground/bond container and receiving equipment. | yes             |

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

| Section | Former entry (text/value)  | Actual entry (text/value)   | Safety-relevant |
|---------|--|---|-----------------|
| 8.1     |  | Occupational exposure limit values (Workplace Exposure Limits):<br>change in the listing (table)  | yes             |
| 9.1     | Vapor pressure:<br>31.69 hPa at 25 °C  | Vapor pressure:<br>4.3 kPa at 20 °C   | yes             |
| 9.1     | Oxidizing properties:<br>none  | Oxidizing properties:<br>none<br>There is no additional information.  | yes             |
| 10.5    | Incompatible materials:<br>There is no additional information.   | Incompatible materials:<br>oxidizers  | yes             |
| 11.1    | Acute toxicity:<br>Shall not be classified as acutely toxic.   | Acute toxicity:<br>Toxic if inhaled.  | yes             |
| 11.1    |  | Acute toxicity estimate (ATE)   | yes             |
| 11.1    |  | Acute toxicity estimate (ATE):<br>change in the listing (table)   | yes             |
| 11.1    |  | Acute toxicity of components of the mixture:<br>change in the listing (table)   | yes             |
| 11.1    | Skin corrosion/irritation:<br>Shall not be classified as corrosive/irritant to skin.   | Skin corrosion/irritation:<br>Causes skin irritation.   | yes             |
| 11.1    | Summary of evaluation of the CMR properties:<br>Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant. | Summary of evaluation of the CMR properties:<br>May cause cancer.<br>Shall not be classified as germ cell mutagenic.<br>Shall not be classified as a reproductive toxicant. | yes             |
| 11.1    |  | • IARC Monographs:<br>change in the listing (table)   | yes             |
| 11.1    |  | • OSHA Carcinogens (United States):<br>none of the ingredients are listed   | yes             |
| 12.1    | Toxicity:<br>Harmful to aquatic life with long lasting effects.  | Toxicity:<br>Harmful to aquatic life.   | yes             |
| 12.2    | Persistence and degradability:<br>Data are not available.  | Persistence and degradability   | yes             |
| 14.1    | UN number:<br>1993   | UN number:<br>1992  | yes             |
| 14.2    | UN proper shipping name:<br>Flammable liquid, n.o.s.   | UN proper shipping name:<br>Flammable liquid, toxic, n.o.s.   | yes             |
| 14.3    |  | Subsidiary risk(s):<br>6.1 (acute toxicity)   | yes             |
| 14.7    | Index number:<br>1993  | Index number:<br>1992   | yes             |
| 14.7    | Proper shipping name:<br>Flammable liquid, n.o.s.  | Proper shipping name:<br>Flammable liquid, toxic, n.o.s.  | yes             |
| 14.7    | Danger label(s):<br>3  | Danger label(s):<br>3+6.1   | yes             |
| 14.7    |  | Danger label(s):<br>change in the listing (table)   | yes             |
| 14.7    | Special provisions (SP):<br>B1, B52, IB3, T4, TP1, TP29  | Special provisions (SP):<br>B1, IB3, T7, TP1, TP28  | yes             |
| 14.7    | ERG No:<br>128   | ERG No:<br>131  | yes             |
| 14.7    | UN number:<br>1993   | UN number:<br>1992  | yes             |

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

| Section | Former entry (text/value)   | Actual entry (text/value)  | Safety-relevant |
|---------|---|--|-----------------|
| 14.7    | Proper shipping name:<br>FLAMMABLE LIQUID, N.O.S.                       | Proper shipping name:<br>FLAMMABLE LIQUID, TOXIC, N.O.S.   | yes             |
| 14.7    |   | Subsidiary risk(s):<br>6.1   | yes             |
| 14.7    | Danger label(s):<br>3   | Danger label(s):<br>3+6.1  | yes             |
| 14.7    |   | Danger label(s):<br>change in the listing (table)  | yes             |
| 14.7    | Special provisions (SP):<br>223, 274, 955                               | Special provisions (SP):<br>223, 274   | yes             |
| 14.7    | EmS:<br>F-E, S-E  | EmS:<br>F-E, S-D   | yes             |
| 14.7    | UN number:<br>1993  | UN number:<br>1992   | yes             |
| 14.7    | Proper shipping name:<br>Flammable liquid, n.o.s.                       | Proper shipping name:<br>Flammable liquid, toxic, n.o.s.   | yes             |
| 14.7    |   | Subsidiary risk(s):<br>6.1   | yes             |
| 14.7    | Danger label(s):<br>3   | Danger label(s):<br>3+6.1  | yes             |
| 14.7    |   | Danger label(s):<br>change in the listing (table)  | yes             |
| 14.7    | Special provisions (SP):<br>A3, 274                                     | Special provisions (SP):<br>A3   | yes             |
| 14.7    | Limited quantities (LQ):<br>10 L  | Limited quantities (LQ):<br>2 L  | yes             |
| 15.1    |   | Specific Toxic Chemical Listings (EPCRA Section 313):<br>change in the listing (table)   | yes             |
| 15.1    |   | Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)   | yes             |
| 15.1    |   | List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4):<br>none of the ingredients are listed | yes             |
| 15.1    |   | Clean Air Act:<br>none of the ingredients are listed   | yes             |
| 15.1    |   | Drug precursors, Controlled Substances Act (21 U.S.C. § 802):<br>none of the ingredients are listed                                | yes             |
| 15.1    |   | NPCA-HMIS® III:<br>change in the listing (table)   | yes             |
| 15.1    |   | Right to Know Hazardous Substance List:<br>change in the listing (table)   | yes             |
| 15.1    | Proposition 65 List of chemicals:<br>none of the ingredients are listed | Proposition 65 List of chemicals   | yes             |
| 15.1    |   | Proposition 65 List of chemicals:<br>change in the listing (table)   | yes             |
| 15.1    |   | Classification according to GHS (1272/2008/EC, CLP):<br>change in the listing (table)  | yes             |
| 15.1    |   | National inventories   | yes             |



# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

| Section | Former entry (text/value) | Actual entry (text/value)  | Safety-relevant |
|---------|---------------------------|--|-----------------|
| 15.1    |                           | National inventories:<br>change in the listing (table)   | yes             |
| 16.2    |                           | Abbreviations and acronyms:<br>change in the listing (table)   | yes             |
| 16.5    |                           | List of relevant phrases (code and full text as stated in chapter 2 and 3):<br>change in the listing (table) | yes             |

### 16.2 Abbreviations and acronyms

| Abbr.            | Descriptions of used abbreviations  |
|------------------|---|
| 29 CFR 1910.1000 | 29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)                                   |
| 49 CFR US DOT    | 49 CFR § 40 U.S. Department of Transportation   |
| Acute Tox.       | Acute toxicity  |
| ATE              | Acute Toxicity Estimate   |
| BCF              | Bioconcentration factor   |
| BOD              | Biochemical Oxygen Demand   |
| Carc.            | Carcinogenicity   |
| CAS              | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| Ceiling-C        | Ceiling value   |
| CLP              | Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures   |
| CMR              | Carcinogenic, Mutagenic or toxic for Reproduction   |
| COD              | Chemical oxygen demand  |
| DGR              | Dangerous Goods Regulations (see IATA/DGR)  |
| DMEL             | Derived Minimal Effect Level  |
| DNEL             | Derived No-Effect Level   |
| DOT              | Department of Transportation (USA)  |
| EC No            | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EINECS           | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS           | European List of Notified Chemical Substances   |
| EmS              | Emergency Schedule  |
| ERG No           | Emergency Response Guidebook - Number   |
| Eye Dam.         | Seriously damaging to the eye   |
| Eye Irrit.       | Irritant to the eye   |
| Flam. Liq.       | Flammable liquid  |
| GHS              | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IARC             | International Agency for Research on Cancer   |
| IARC Monographs  | IARC Monographs on the Evaluation of Carcinogenic Risks to Humans   |
| IATA             | International Air Transport Association   |

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

| Abbr.          | Descriptions of used abbreviations  |
|----------------|---|
| IATA/DGR       | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO           | International Civil Aviation Organization   |
| IMDG           | International Maritime Dangerous Goods Code   |
| log KOW        | n-Octanol/water   |
| MARPOL         | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")   |
| NFPA® 704      | National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States) |
| NLP            | No-Longer Polymer   |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition                                   |
| OSHA           | Occupational Safety and Health Administration (United States)   |
| PBT            | Persistent, Bioaccumulative and Toxic   |
| PEL            | Permissible exposure limit  |
| PNEC           | Predicted No-Effect Concentration   |
| ppm            | Parts per million   |
| Skin Corr.     | Corrosive to skin   |
| Skin Irrit.    | Irritant to skin  |
| STEL           | Short-term exposure limit   |
| STOT SE        | Specific target organ toxicity - single exposure  |
| TWA            | Time-weighted average   |
| vPvB           | Very Persistent and very Bioaccumulative  |

### 16.3 Key literature references and sources for data

- OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200
- 49 CFR § 172.101 Hazardous Materials Table (DOT)

### 16.4 Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### 16.5

#### List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text                                     |
|------|--|
| H225 | Highly flammable liquid and vapor.       |
| H226 | Flammable liquid and vapor.              |
| H301 | Toxic if swallowed.                      |
| H302 | Harmful if swallowed.                    |
| H311 | Toxic in contact with skin.              |
| H312 | Harmful in contact with skin.            |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation.                  |

# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

## Cleansmart Odor-Rific Lively Lemon

Version number: GHS 5.0  
Replaces version of: 2016-05-12 (GHS 4)

revision: 2018-10-29

| Code | Text                               |
|------|------------------------------------|
| H318 | Causes serious eye damage.         |
| H319 | Causes serious eye irritation.     |
| H330 | Fatal if inhaled.                  |
| H331 | Toxic if inhaled.                  |
| H336 | May cause drowsiness or dizziness. |
| H350 | May cause cancer.                  |
| H370 | Causes damage to organs.           |

16.7

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.