



## CWS301 - Citrus Wash and Gloss Car Wash

### SECTION 1: IDENTIFICATION

- 1.1 Product identifier:** CWS301 - Citrus Wash and Gloss Car Wash
- Other means of identification:**  
Not relevant
- 1.2 Recommended use of the chemical and restrictions on use:**  
Relevant uses (Consumer use): Bodywork cleaning  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party:**  
Chemical Guys  
3501 Sepulveda Blvd  
90505 Torrance - California - United States  
Phone: 866-822-3670 - Fax: 310-988-1061  
info@ChemicalGuys.com  
www.ChemicalGuys.com
- 1.4 Emergency phone number:** INFOTRAC Acct. #116262  
US: 1-800-535-5053 International: +1-352-323-3500

### SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**29 CFR 1910.1200:**  
Classification of the chemical in accordance with paragraph (d)(1)(i) of §1910.1200  
Eye Dam. 1: Serious eye damage, Category 1, H318  
Skin Corr. 1: Skin corrosion, Category 1, H314
- 2.2 Label elements:**  
**29 CFR 1910.1200:**  
**Danger**
- 
- Hazard statements:**  
Skin Corr. 1: H314 - Causes severe skin burns and eye damage.
- Precautionary statements:**  
P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P264: Wash thoroughly after use.  
P280: Wear protective gloves/protective clothing/eye protection/protective footwear.  
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501: Dispose of the contents/containers according to the local, state and federal regulations.
- Substances that contribute to the classification**  
sodium hydroxide (CAS: 1310-73-2)
- Additional labeling:**



**WARNING**

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## CWS301 - Citrus Wash and Gloss Car Wash

### SECTION 2: HAZARD(S) IDENTIFICATION (continued)

Keep out of the reach of children

This product can expose you to chemicals including 1,4-dioxane; acetaldehyde; Ethylene oxide, which is [are] known to the State of California to cause cancer, and Ethylene oxide; Sulphur dioxide, which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Federal Hazardous Substances Act (FHSA) >> Corrosive

Causes Burns. Do not swallow. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. Handle with care. Keep out of reach of children. Wear gloves and safety glasses. Use only in a well-ventilated area.

#### FIRST AID TREATMENT

If swallowed, call a Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes. If on skin, rinse well with water. If on clothes, remove clothes. If breathed in, move person to fresh air.

Contains : sodium hydroxide (CAS 1310-73-2)

#### 2.3 Hazards not otherwise classified (HNOC):

Not relevant

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances:

Not relevant

#### 3.2 Mixtures:

**Chemical description:** Aqueous mixture composed of additives

#### Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

| Identification  | Chemical name/Classification                                                                                       | Concentration |
|-----------------|--------------------------------------------------------------------------------------------------------------------|---------------|
| CAS: 68584-22-5 | <b>Benzenesulfonic acid, C10-16-alkyl derivs.</b><br>Eye Irrit. 2A: H319 - Warning                                 | 10 - <25%     |
| CAS: 68585-34-2 | <b>Alcohols, C10-16, ethoxylated, sulfates, sodium salts</b><br>Eye Irrit. 2A: H319; Skin Irrit. 2: H315 - Warning | 2.5 - <10%    |
| CAS: 1310-73-2  | <b>sodium hydroxide</b><br>Skin Corr. 1A: H314 - Danger                                                            | 2.5 - <10%    |
| CAS: 64-17-5    | <b>ethanol</b><br>Eye Irrit. 2A: H319; Flam. Liq. 2: H225 - Danger                                                 | <1.25%        |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

### SECTION 4: FIRST-AID MEASURES

#### 4.1 Description of necessary measures:

Request medical assistance immediately, showing the SDS of this product.

##### By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

##### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

##### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

##### By ingestion/aspiration:

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### SECTION 4: FIRST-AID MEASURES (continued)

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

#### 4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

#### 4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not relevant

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Suitable (and unsuitable) extinguishing media:

##### Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

##### Unsuitable extinguishing media:

Non-applicable

#### 5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

##### Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

##### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

##### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

#### 6.3 Methods and materials for containment and cleaning up:

For accidental releases in excess of reportable quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.

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## CWS301 - Citrus Wash and Gloss Car Wash

### SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

#### 6.4 Reference to other sections:

See sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Specific storage requirements

Minimum Temp.: 41 °F

Maximum Temp.: 86 °F

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

#### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace:

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

| Identification                     | Occupational exposure limits |                          |                        |
|------------------------------------|------------------------------|--------------------------|------------------------|
|                                    | 8-hour TWA PEL               | Ceiling Values - TWA PEL |                        |
| sodium hydroxide<br>CAS: 1310-73-2 |                              |                          | 2 mg/m <sup>3</sup>    |
| ethanol<br>CAS: 64-17-5            |                              | 1000 ppm                 | 1900 mg/m <sup>3</sup> |

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## CWS301 - Citrus Wash and Gloss Car Wash

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

US. ACGIH Threshold Limit Values (2026):

| Identification                     | Occupational exposure limits |          |                     |
|------------------------------------|------------------------------|----------|---------------------|
| sodium hydroxide<br>CAS: 1310-73-2 | TLV-TWA                      |          |                     |
|                                    | TLV-STEL                     |          | 2 mg/m <sup>3</sup> |
| ethanol<br>CAS: 64-17-5            | TLV-TWA                      |          |                     |
|                                    | TLV-STEL                     | 1000 ppm |                     |

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

| Identification                     | Occupational exposure limits |          |                        |
|------------------------------------|------------------------------|----------|------------------------|
| sodium hydroxide<br>CAS: 1310-73-2 | PEL                          |          | 2 mg/m <sup>3</sup>    |
|                                    | STEL                         |          |                        |
| ethanol<br>CAS: 64-17-5            | PEL                          | 1000 ppm | 1900 mg/m <sup>3</sup> |
|                                    | STEL                         |          |                        |

NIOSH: Immediately Dangerous To Life or Health (IDLH) Values:

| Identification                     | Occupational exposure limits |          |                      |
|------------------------------------|------------------------------|----------|----------------------|
| sodium hydroxide<br>CAS: 1310-73-2 | TWA                          |          |                      |
|                                    | IDLH Value                   |          | 10 mg/m <sup>3</sup> |
| ethanol<br>CAS: 64-17-5            | TWA                          |          |                      |
|                                    | IDLH Value                   | 3300 ppm |                      |

#### 8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

C.- Specific protection for the hands

Not relevant

D.- Eye and face protection

Not relevant

E.- Bodily protection

Not relevant

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

It is not necessary to take additional emergency measures.

#### Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

##### Appearance:

Physical state at 68 °F:

Liquid

Appearance:

Opaque

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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## CWS301 - Citrus Wash and Gloss Car Wash

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

|                                              |                                                                                         |
|----------------------------------------------|-----------------------------------------------------------------------------------------|
| Color:                                       |  Lemon |
| Odor:                                        | Fruity                                                                                  |
| <b>Volatility:</b>                           |                                                                                         |
| Boiling point at atmospheric pressure:       | 213 °F                                                                                  |
| Vapour pressure at 68 °F:                    | 2375 Pa                                                                                 |
| Vapour pressure at 122 °F:                   | 12486.82 Pa (12.49 kPa)                                                                 |
| Evaporation rate at 68 °F:                   | Not relevant *                                                                          |
| <b>Product description:</b>                  |                                                                                         |
| Density at 68 °F:                            | 1039 kg/m <sup>3</sup>                                                                  |
| Relative density at 68 °F:                   | 1.039                                                                                   |
| Dynamic viscosity at 68 °F:                  | Not relevant *                                                                          |
| Kinematic viscosity at 68 °F:                | 500 - 1100 mm <sup>2</sup> /s                                                           |
| Kinematic viscosity at 104 °F:               | Not relevant *                                                                          |
| Concentration:                               | Not relevant *                                                                          |
| pH:                                          | 12.4 - 13.4                                                                             |
| Relative vapour density at 68 °F:            | Not relevant *                                                                          |
| Partition coefficient n-octanol/water 68 °F: | Not relevant *                                                                          |
| Solubility in water at 68 °F:                | Not relevant *                                                                          |
| Solubility properties:                       | Not relevant *                                                                          |
| Decomposition temperature:                   | Not relevant *                                                                          |
| Melting point/freezing point:                | Not relevant *                                                                          |
| <b>Flammability:</b>                         |                                                                                         |
| Flash Point:                                 | Non Flammable (>199.4 °F)                                                               |
| Flammability (solid, gas):                   | Not relevant *                                                                          |
| Autoignition temperature:                    | 365 °F                                                                                  |
| Lower flammability limit:                    | Not relevant *                                                                          |
| Upper flammability limit:                    | Not relevant *                                                                          |
| <b>Particle characteristics:</b>             |                                                                                         |
| Median equivalent diameter:                  | Not relevant *                                                                          |

#### 9.2 Other information:

##### Information with regard to physical hazard classes:

|                                                              |                |
|--------------------------------------------------------------|----------------|
| Explosive properties:                                        | Not relevant * |
| Oxidising properties:                                        | Not relevant * |
| Corrosive to metals:                                         | Not relevant * |
| Heat of combustion:                                          | Not relevant * |
| Aerosols-total percentage (by mass) of flammable components: | Not relevant * |

##### Other safety characteristics:

|                                       |                |
|---------------------------------------|----------------|
| Surface tension at 68 °F:             | Not relevant * |
| Refraction index:                     | Not relevant * |
| MIR (Maximum Incremental Reactivity): | 0.02           |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

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## CWS301 - Citrus Wash and Gloss Car Wash

### SECTION 10: STABILITY AND REACTIVITY (continued)

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

#### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight   | Humidity       |
|--------------------|------------------|-------------------------|------------|----------------|
| Not applicable     | Not applicable   | Precaution              | Precaution | Not applicable |

#### 10.5 Incompatible materials:

| Acids              | Water          | Oxidising materials | Combustible materials | Others         |
|--------------------|----------------|---------------------|-----------------------|----------------|
| Avoid strong acids | Not applicable | Precaution          | Not applicable        | Not applicable |

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

##### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

##### A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

##### B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

##### C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

##### D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.  
IARC: sulphuric acid (1: Carcinogenic to humans); Sulphur dioxide (3: Not classifiable as to its carcinogenicity to humans); 1,4-dioxane (2B: Possibly carcinogenic to humans); Ethylene oxide (1: Carcinogenic to humans); ethanol (1: Carcinogenic to humans); acetaldehyde (2B: Possibly carcinogenic to humans)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

##### E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

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## CWS301 - Citrus Wash and Gloss Car Wash

### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

#### F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### Other information:

Not relevant

#### Specific toxicology information on the substances:

| Identification                                                | Acute toxicity         |                  | Genus  |
|---------------------------------------------------------------|------------------------|------------------|--------|
| Benzenesulfonic acid, C10-16-alkyl derivs.<br>CAS: 68584-22-5 | LD50 oral              | >5000 mg/kg      | Rat    |
|                                                               | LD50 dermal            |                  |        |
|                                                               | LC50 inhalation dust   |                  |        |
| ethanol<br>CAS: 64-17-5                                       | LD50 oral              | 6200 mg/kg       | Rat    |
|                                                               | LD50 dermal            | 20000 mg/kg      | Rabbit |
|                                                               | LC50 inhalation vapour | 124.7 mg/L (4 h) | Rat    |

### SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### 12.1 Ecotoxicity (aquatic and terrestrial, where available):

##### Acute toxicity:

| Identification                                                | Concentration |                   | Species                | Genus      |
|---------------------------------------------------------------|---------------|-------------------|------------------------|------------|
| Benzenesulfonic acid, C10-16-alkyl derivs.<br>CAS: 68584-22-5 | LC50          | 10000 mg/L (96 h) | Cyprionodon variegatus | Fish       |
|                                                               | EC50          | Not relevant      |                        |            |
|                                                               | EC50          | Not relevant      |                        |            |
| sodium hydroxide<br>CAS: 1310-73-2                            | LC50          | 189 mg/L (48 h)   | Leuciscus idus         | Fish       |
|                                                               | EC50          | 33 mg/L           | Crangon crangon        | Crustacean |
|                                                               | EC50          | Not relevant      |                        |            |
| ethanol<br>CAS: 64-17-5                                       | LC50          | 11000 mg/L (96 h) | Alburnus alburnus      | Fish       |
|                                                               | EC50          | 9268 mg/L (48 h)  | Daphnia magna          | Crustacean |
|                                                               | EC50          | 1450 mg/L (192 h) | Microcystis aeruginosa | Algae      |

##### Chronic toxicity:

| Identification          | Concentration |          | Species            | Genus      |
|-------------------------|---------------|----------|--------------------|------------|
| ethanol<br>CAS: 64-17-5 | NOEC          | 250 mg/L | Danio rerio        | Fish       |
|                         | NOEC          | 2 mg/L   | Ceriodaphnia dubia | Crustacean |

#### 12.2 Persistence and degradability:

##### Substance-specific information:

| Identification                                                | Degradability |              | Biodegradability |              |
|---------------------------------------------------------------|---------------|--------------|------------------|--------------|
| Benzenesulfonic acid, C10-16-alkyl derivs.<br>CAS: 68584-22-5 | BOD5          | Not relevant | Concentration    | Not relevant |
|                                                               | COD           | Not relevant | Period           | 28 days      |
|                                                               | BOD5/COD      | Not relevant | % Biodegradable  | 8 %          |

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## CWS301 - Citrus Wash and Gloss Car Wash

### SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification          | Degradability |              | Biodegradability |          |
|-------------------------|---------------|--------------|------------------|----------|
| ethanol<br>CAS: 64-17-5 | BOD5          | Not relevant | Concentration    | 100 mg/L |
|                         | COD           | Not relevant | Period           | 14 days  |
|                         | BOD5/COD      | Not relevant | % Biodegradable  | 89 %     |

#### 12.3 Bioaccumulative potential:

##### Substance-specific information:

| Identification          | Bioaccumulation potential |       |
|-------------------------|---------------------------|-------|
| ethanol<br>CAS: 64-17-5 | BCF                       | 3     |
|                         | Pow Log                   | -0.31 |
|                         | Potential                 | Low   |

#### 12.4 Mobility in soil:

| Identification                                                | Absorption/desorption |                      | Volatility |                                |
|---------------------------------------------------------------|-----------------------|----------------------|------------|--------------------------------|
| Benzenesulfonic acid, C10-16-alkyl derivs.<br>CAS: 68584-22-5 | Koc                   | 8320000000           | Henry      | Not relevant                   |
|                                                               | Conclusion            | Immobile             | Dry soil   | Not relevant                   |
|                                                               | Surface tension       | Not relevant         | Moist soil | Not relevant                   |
| ethanol<br>CAS: 64-17-5                                       | Koc                   | 1                    | Henry      | 4.61E-1 Pa·m <sup>3</sup> /mol |
|                                                               | Conclusion            | Very High            | Dry soil   | Yes                            |
|                                                               | Surface tension       | 2.339E-2 N/m (77 °F) | Moist soil | Yes                            |

#### 12.5 Results of PBT and vPvB assessment:

Not relevant

#### 12.6 Other adverse effects:

Not described

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Disposal methods:

The next characteristic per RCRA could apply to the unused product if it becomes a waste material: Corrosivity. The next EPA hazardous waste number could apply: D002.

Wastes generated by normal household activities (e.g., routine house and yard maintenance) are excluded from the definition of hazardous waste (Title 40 of the Code of Federal Regulations Part 261.4)

##### Waste management (disposal and evaluation):

Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly. Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing. See section 6 for further information about Accidental release measures.

##### Regulations related to waste management:

Legislation related to waste management:

40 CFR Solid Wastes - Part 239 through 282.

State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state's policies.

### SECTION 14: TRANSPORT INFORMATION

#### Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:



## CWS301 - Citrus Wash and Gloss Car Wash

### SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number:** UN3266  
**14.2 UN proper shipping name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hydroxide)  
**14.3 Transport hazard class(es):** 8  
**Labels:** 8  
**14.4 Packing group, if applicable:** II  
**14.5 Marine pollutant:** No  
**14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L  
**14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not relevant

#### Transport of dangerous goods by sea:

With regard to IMDG 42-24:



- 14.1 UN number:** UN3266  
**14.2 UN proper shipping name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hydroxide)  
**14.3 Transport hazard class(es):** 8  
**Labels:** 8  
**14.4 Packing group, if applicable:** II  
**14.5 Marine pollutant:** No  
**14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**  
Special regulations: 274  
EmS Codes: F-A, S-B  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L  
Segregation group: SGG18  
**14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not relevant

#### Transport of dangerous goods by air:

With regard to IATA/ICAO 2026:



- 14.1 UN number:** UN3266  
**14.2 UN proper shipping name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hydroxide)  
**14.3 Transport hazard class(es):** 8  
**Labels:** 8  
**14.4 Packing group, if applicable:** II  
**14.5 Marine pollutant:** No  
**14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**  
Physico-Chemical properties: see section 9  
**14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not relevant

### SECTION 15: REGULATORY INFORMATION

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

- CONTINUED ON NEXT PAGE -



## CWS301 - Citrus Wash and Gloss Car Wash

### SECTION 15: REGULATORY INFORMATION (continued)

- CALIFORNIA LABOR CODE - The Hazardous Substances List: sodium hydroxide (1310-73-2) ; potassium hydroxide (1310-58-3) ; sulphuric acid (7664-93-9) ; Sulphur dioxide (7446-09-5) ; 1,4-dioxane (123-91-1) ; Ethylene oxide (75-21-8) ; ethanol (64-17-5) ; acetaldehyde (75-07-0)
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Sulphur dioxide (7446-09-5) ; Ethylene oxide (75-21-8)
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: 1,4-dioxane (123-91-1) ; Ethylene oxide (75-21-8) ; acetaldehyde (75-07-0)
- CANADA-Domestic Substances List (DSL): All components of this product comply with the inventory requirements administered by the governing country
- CANADA-Non-Domestic Substances List (NDSL): Not relevant
- The Toxic Substances Control Act (TSCA) : All components of this product comply with the inventory requirements administered by the governing country

#### **Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific risk assessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and disposing of this product.

#### **Other legislation:**

Take into consideration other applicable federal, state, and local laws and local regulations.

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## CWS301 - Citrus Wash and Gloss Car Wash

### SECTION 16: OTHER INFORMATION

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

**Texts of the legislative phrases mentioned in section 2:**

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**29 CFR 1910.1200:**

Eye Irrit. 2A: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

**Advice related to training:**

According to 29 CFR 1910. 1200, training on chemical hazards is necessary for employees using this product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product label.

**Principal bibliographical sources:**

Occupational Safety & Health Administration (OSHA).

**Abbreviations and acronyms:**

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

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END OF SAFETY DATA SHEET