



## 4. FIRST-AID MEASURES

### First Aid Measures

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation persists.  |
| <b>Skin Contact</b> | Wash with soap and water. If skin irritation persists, call a physician.   |
| <b>Inhalation</b>   | Remove to fresh air.   |
| <b>Ingestion</b>    | Drink 2-3 large glasses of water. Do not induce vomiting. Call a physician. Never give anything by mouth to an unconscious person. |

### Most important symptoms and effects

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | Exposed individuals may experience eye tearing, redness and discomfort. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. |
|-----------------|---|

### Indication of any immediate medical attention and special treatment needed

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

### Specific Hazards Arising from the Chemical

Combustion products may be toxic.

**Hazardous Combustion Products** Carbon oxides. Oxides of sulfur. Nitrogen oxides (NOx).

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                                  |  |
|----------------------------------|--|
| <b>Personal Precautions</b>      | Use personal protection recommended in Section 8.  |
| <b>Environmental Precautions</b> | Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS. |

### Methods and material for containment and cleaning up

|                                |   |
|--------------------------------|---|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so.   |
| <b>Methods for Clean-Up</b>    | Pick up with mop, wet/dry vac, or absorbent material. Rinse area with clear water and allow floor to dry before allowing traffic. |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing.

### Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use. Store at room temperature.

#### Incompatible Materials

Acids. Strong alkalis. Heavy metal salts.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

| Chemical Name          | ACGIH TLV | OSHA PEL                       | NIOSH IDLH |
|------------------------|-----------|--------------------------------|------------|
| Citric Acid<br>77-92-9 | -         | 15 mg / m <sup>3</sup> (Total) | -          |

### Appropriate engineering controls

#### Engineering Controls

Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

### Individual protection measures, such as personal protective equipment

#### Eye/Face Protection

Risk of contact: Wear approved safety goggles.

#### Skin and Body Protection

Wear suitable protective clothing.

#### Respiratory Protection

Ensure adequate ventilation, especially in confined areas.

#### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                   |                       |                  |
|-----------------------|-------------------|-----------------------|------------------|
| <b>Physical State</b> | Liquid            | <b>Odor</b>           | Honey and almond |
| <b>Appearance</b>     | Clear blue liquid | <b>Odor Threshold</b> | Not determined   |
| <b>Color</b>          | Clear blue        |                       |                  |

### Property

### Values

### Remarks • Method

|                                     |   |             |
|-------------------------------------|---|-------------|
| <b>pH</b>                           | 5.0 ± 0.2 (conc)<br>5.5 ± 0.2 (1:16 dilution) |             |
| <b>Melting Point/Freezing Point</b> | Not determined                                |             |
| <b>Boiling Point/Boiling Range</b>  | 100 °C / 212 °F                               |             |
| <b>Flash Point</b>                  | None  |             |
| <b>Evaporation Rate</b>             | 1.0   | (Water = 1) |
| <b>Flammability (Solid, Gas)</b>    | Liquid-Not applicable                         |             |
| <b>Upper Flammability Limits</b>    | Not applicable                                |             |
| <b>Lower Flammability Limit</b>     | Not applicable                                |             |
| <b>Vapor Pressure</b>               | Not determined                                |             |
| <b>Vapor Density</b>                | Not determined                                |             |
| <b>Specific Gravity</b>             | 1.02  |             |
| <b>Water Solubility</b>             | Infinite                                      |             |
| <b>Solubility in other solvents</b> | Not determined                                |             |
| <b>Partition Coefficient</b>        | Not determined                                |             |
| <b>Auto-ignition Temperature</b>    | Not determined                                |             |
| <b>Decomposition Temperature</b>    | Not determined                                |             |
| <b>Kinematic Viscosity</b>          | Not determined                                |             |
| <b>Dynamic Viscosity</b>            | Not determined                                |             |
| <b>Explosive Properties</b>         | Not determined                                |             |
| <b>Oxidizing Properties</b>         | Not determined                                |             |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

**Hazardous Polymerization**      Hazardous polymerization does not occur.

### Conditions to Avoid

Keep separated from incompatible substances. Keep out of reach of children.

### Incompatible Materials

Acids. Strong alkalis. Heavy metal salts.

### Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Eye Contact**                      Avoid contact with eyes.

**Skin Contact**                      Avoid contact with skin.

**Inhalation**                          Avoid breathing vapors or mists.

**Ingestion**                          Do not ingest.

### Component Information

| Chemical Name                        | Oral LD50             | Dermal LD50              | Inhalation LC50 |
|--------------------------------------|-----------------------|--------------------------|-----------------|
| Sodium xylenesulfonate<br>1300-72-7  | = 7200 mg/kg ( Rat )  | -                        | -               |
| Propylene Glycol<br>57-55-6          | = 20000 mg/kg ( Rat ) | = 20800 mg/kg ( Rabbit ) | -               |
| Cocamidopropyl betaine<br>61789-40-0 | = 4900 mg/kg ( Rat )  | -                        | -               |
| Citric Acid<br>77-92-9               | = 3000 mg/kg ( Rat )  | -                        | -               |
| Ethoxylated Nonylphenol<br>9016-45-9 | = 1310 mg/kg ( Rat )  | = 2 mL/kg ( Rabbit )     | -               |

### Information on physical, chemical and toxicological effects

**Symptoms**                          Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity**                      This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

### Numerical measures of toxicity

Not determined

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic life with long lasting effects.

### Component Information

| Chemical Name                        | Algae/aquatic plants  | Fish  | Toxicity to microorganisms | Crustacea  |
|--------------------------------------|---|---|----------------------------|--|
| Propylene Glycol<br>57-55-6          | 19000: 96 h<br>Pseudokirchneriella<br>subcapitata mg/L EC50   | 51600: 96 h Oncorhynchus<br>mykiss mg/L LC50 static 41 -<br>47: 96 h Oncorhynchus<br>mykiss mL/L LC50 static<br>51400: 96 h Pimephales<br>promelas mg/L LC50 static<br>710: 96 h Pimephales<br>promelas mg/L LC50 |                            | 10000: 24 h Daphnia magna<br>mg/L EC50 1000: 48 h<br>Daphnia magna mg/L EC50<br>Static |
| Cocamidopropyl betaine<br>61789-40-0 | 1.0 - 10.0: 72 h<br>Desmodemus subspicatus<br>mg/L EC50 0.55: 96 h<br>Desmodemus subspicatus<br>mg/L EC50 | 1.0 - 10.0: 96 h Brachydanio<br>rerio mg/L LC50 2: 96 h<br>Brachydanio rerio mg/L<br>LC50 semi-static   |                            | 6.5: 48 h Daphnia magna<br>mg/L EC50   |
| Citric Acid<br>77-92-9               |   | 1516: 96 h Lepomis<br>macrochirus mg/L LC50<br>static   |                            | 120: 72 h Daphnia magna<br>mg/L EC50   |

### Persistence/Degradability

Not determined.

### Bioaccumulation

Not determined.

### Mobility

| Chemical Name          | Partition Coefficient |
|------------------------|-----------------------|
| Citric Acid<br>77-92-9 | -1.72                 |

### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### **Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

### Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

### DOT

Not regulated

### IATA

Not regulated

### IMDG

Not regulated

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**International Inventories**

| Chemical Name          | TSCA    | DSL | NDSL | EINECS  | ELINCS | ENCS    | IECSC | KECL    | PICCS | AICS |
|------------------------|---------|-----|------|---------|--------|---------|-------|---------|-------|------|
| Sodium xylenesulfonate | Present | X   |      | Present |        | Present | X     | Present | X     | X    |
| Cocamidopropyl betaine | Present | X   |      | Present |        | Present | X     | Present | X     | X    |
| Citric Acid            | Present | X   |      | Present |        | Present | X     | Present | X     | X    |

**Legend:***TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS - Japan Existing and New Chemical Substances**IECSC - China Inventory of Existing Chemical Substances**KECL - Korean Existing and Evaluated Chemical Substances**PICCS - Philippines Inventory of Chemicals and Chemical Substances**AICS - Australian Inventory of Chemical Substances***US Federal Regulations****CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical Name               | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------|------------|---------------|--------------|
| Propylene Glycol<br>57-55-6 | X          |               | X            |

**16. OTHER INFORMATION****NFPA****Health Hazards****Flammability****Instability****Special Hazards**

0

0

0

Not determined

**HMIS****Health Hazards****Flammability****Physical Hazards****Personal Protection**

Not determined

Not determined

Not determined

Not determined

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**End of Safety Data Sheet**