SECTION 1: Product and company identification

Product name: Liquid Laundry Detergent
Use of the substance/mixture: Detergent
Product code: 0221
Company: Total Solutions
P.O. Box 240014
Milwaukee, WI 53224-USA
T (414) 354-6417
Emergency number: Chemtrec: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Eye Dam. 1 H318
Carc. 2 H351

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US):

<table>
<thead>
<tr>
<th>GHS05</th>
<th>GHS08</th>
</tr>
</thead>
</table>

Signal word (GHS-US): Danger
Hazard statements (GHS-US): Causes serious eye damage
Suspected of causing cancer
Precautionary statements (GHS-US):
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear eye protection, protective clothing, protective gloves.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
Immediately call a doctor, a POISON CENTER.
Store locked up.
Dispose of contents/container to comply with local/regional/national/international regulations.

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable
Full text of H-phrases: see section 16

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linear Alcohol Ethoxylate</td>
<td>(CAS-No.) 34398-01-1</td>
<td>10-20</td>
<td>Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318</td>
</tr>
<tr>
<td>sodium dodecylbenzenesulfonate</td>
<td>(CAS-No.) 25155-30-0</td>
<td>1-5</td>
<td>Acute Tox. 4 (Oral), H302 Skin Irr. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335</td>
</tr>
<tr>
<td>2-propanol</td>
<td>(CAS-No.) 67-63-0</td>
<td>1-5</td>
<td>Flam. Liq. 2, H225 Eye Irr. 2A, H319 STOT SE 3, H336</td>
</tr>
<tr>
<td>diethanolamine</td>
<td>(CAS-No.) 111-42-2</td>
<td>0.1-1</td>
<td>Acute Tox. 4 (Oral), H302 Skin Irr. 2, H315 Eye Dam. 1, H318 Carc. 2, H351 STOT RE 2, H373</td>
</tr>
</tbody>
</table>

A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.
SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned:
Get medical advice/attention.

First-aid measures after inhalation: Remove the victim into fresh air.

First-aid measures after skin contact: Wash skin with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs:
Get medical advice/attention.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion: Rinse mouth with water. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects: Suspected of causing cancer. Causes serious eye damage.

Symptoms/effects after inhalation: None under normal use.

Symptoms/effects after skin contact: None under normal conditions.

Symptoms/effects after eye contact: Causes serious eye damage.


SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Adapt extinguishing media to the environment.

5.2. Special hazards arising from the substance or mixture

Reactivity: Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

Firefighting instructions: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel


Emergency procedures: Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment: Contain released product, pump into suitable containers.

Methods for cleaning up: This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

No additional information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing.

Hygiene measures: Wash thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep container closed when not in use.

Incompatible products: Strong acids.

Storage area: Meet the legal requirements. Store in a cool area. Store in a dry area.
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH TWA (ppm)</th>
<th>ACGIH STEL (ppm)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
<th>OSHA PEL (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td></td>
<td>200 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>diethanolamine (111-42-2)</td>
<td>ACGIH TWA (mg/m³)</td>
<td>1 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Remark (ACGIH)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>sodium dodecylbenzenesulfonate (25155-30-0)</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linear Alcohol Ethoxylate (34398-01-1)</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Personal protective equipment: Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Protective goggles. Protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>clear, Blue, Viscous liquid.</td>
</tr>
<tr>
<td>Odor</td>
<td>Floral odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>10.5 - 12.5</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 200 °F Closed Cup</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific gravity / density</td>
<td>1.01 g/ml</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Viscosity, dynamic: No data available
VOC content: < 5 %

SECTION 10: Stability and reactivity

10.1. Reactivity
Upon combustion: CO and CO2 are formed.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid
No additional information available

10.5. Incompatible materials
Acids.

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Not classified

2-propanol (67-63-0)
LD50 oral rat 5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value)
LD50 dermal rabbit 16400 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value)
LC50 inhalation rat (ppm) > 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male/female, Experimental value)
ATE CLP (oral) 5840 mg/kg body weight

diethanolamine (111-42-2)
LD50 dermal rabbit 8180 mg/kg
ATE CLP (oral) 500 mg/kg body weight
ATE CLP (dermal) 8180 mg/kg body weight

sodium dodecylbenzenesulfonate (25155-30-0)
LD50 oral rat 1080 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Read-across)
ATE CLP (oral) 1080 mg/kg body weight

Linear Alcohol Ethoxylate (34398-01-1)
LD50 oral rat > 1400 mg/kg

Skin corrosion/irritation: Not classified
pH: 10.5 - 12.5

Serious eye damage/irritation: Causes serious eye damage.
pH: 10.5 - 12.5

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Suspected of causing cancer.

diethanolamine (111-42-2)
IARC group: 2B - Possibly carcinogenic to humans
Reproductive toxicity: Not classified
Specific target organ toxicity – single exposure: Not classified
Specific target organ toxicity – repeated exposure: Not classified
Aspiration hazard: Not classified
Symptoms/effects after inhalation: None under normal use.
Symptoms/effects after skin contact: None under normal conditions.
Symptoms/effects after eye contact: Causes serious eye damage.
Likely routes of exposure: Skin and eye contact

SECTION 12: Ecological information

12.1. Toxicity
### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Component</th>
<th>LC50 fish</th>
<th>EC50 Daphnia</th>
<th>ErC50 (algae)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td>9640 - 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sodium dodecylbenzenesulfonate (25155-30-0)</td>
<td>3.2 - 5.6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Recirculation, Fresh water, Experimental value)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>6.3 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>65.4 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Salt water, Read-across)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linear Alcohol Ethoxylate (34398-01-1)</td>
<td>&lt; 10 mg/l</td>
<td>&lt; 10 mg/l</td>
<td>&lt; 10 mg/l</td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Component</th>
<th>Log Pow</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td>0.05 (Weight of evidence approach, 25 ºC)</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
<tr>
<td>sodium dodecylbenzenesulfonate (25155-30-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BCF fish 1</td>
<td>130 (Equivalent or similar to OECD 305, 3 day(s), Leuciscus idus, Semi-static system, Fresh water, Experimental value)</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
<tr>
<td>Log Pow</td>
<td>1.96 (Experimental value, Equivalent or similar to OECD 107, 25 ºC)</td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT : Not regulated for transport

#### Additional information

Other information : No supplementary information available.

#### ADR

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol</td>
<td>67-63-0</td>
<td>1-5%</td>
</tr>
</tbody>
</table>
Liquid Laundry Detergent
Safety Data Sheet

<table>
<thead>
<tr>
<th>diethanolamine</th>
<th>CAS-No. 111-42-2</th>
<th>0.1-1%</th>
</tr>
</thead>
</table>

2-propanol (67-63-0)

Subject to reporting requirements of United States SARA Section 313

| diethanolamine (111-42-2) | Subject to reporting requirements of United States SARA Section 313 |

| CERCLA RQ | 100 lb |

Linear Alcohol Ethoxylate (34398-01-1)

| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |

⚠️ WARNING This product can expose you to ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

| H225         | Highly flammable liquid and vapour |
| H302         | Harmful if swallowed               |
| H315         | Causes skin irritation             |
| H318         | Causes serious eye damage          |
| H319         | Causes serious eye irritation      |
| H335         | May cause respiratory irritation   |
| H336         | May cause drowsiness or dizziness  |
| H351         | Suspected of causing cancer        |
| H373         | May cause damage to organs through prolonged or repeated exposure |

NFPA health hazard: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity: 0 - Material that in themselves are normally stable, even under fire conditions.

Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.