SECTION 1: Product and company identification

Product name: Hand Sanitizing Wipes
Use of the substance/mixture: Premoistened wipe
Product code: 1448
Company: Total Solutions
P.O. Box 240014
Milwaukee, WI 53224 - USA
T: (414) 354-6417
Emergency number: Chemtec: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Flam. Sol. 2 H228
Eye Irrit. 2A H319
STOT SE 3 H336

2.2. Label elements

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

- GHS02
- GHS07

Signal word (GHS-US): Warning
Hazard statements (GHS-US):
- Flammable solid
  Causes serious eye irritation
  May cause drowsiness or dizziness

Precautionary statements (GHS-US):
- Keep away from heat, open flames, sparks. - No smoking
- Ground/Bond container and receiving equipment
- Use explosion-proof electrical, lighting, ventilating equipment
- Avoid breathing mist, vapors
- Wash thoroughly after handling
- Use only outdoors or in a well-ventilated area
- Wear eye protection, protective clothing, protective gloves
- 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
- Call a doctor, a POISON CENTER if you feel unwell
- If eye irritation persists: Get medical advice/attention
- In case of fire: Use water to extinguish
- Store in a well-vented place. Keep container tightly closed
- 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>ethanol</td>
<td>(CAS No) 64-17-5</td>
<td>60 - 100</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H336</td>
</tr>
</tbody>
</table>
**Hand Sanitizing Wipes**

**Safety Data Sheet**

<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>0.5 - 1.5</td>
<td>Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318</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).

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

First-aid measures after skin contact:
Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower.

First-aid measures after eye contact:
Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get 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:
Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation:
None under normal use.

Symptoms/effects after skin contact:
Contact during a long period may cause slight irritation.

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

Symptoms/effects after ingestion:
Gastrointestinal complaints.

4.3. **Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures**

5.1. **Extinguishing media**

Suitable extinguishing media:
All extinguishing media allowed.

5.2. **Special hazards arising from the substance or mixture**

Fire hazard:
Highly flammable liquid and vapor.

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**

Protective equipment:

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 substance, 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:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed.

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: Oxidizing agent.
Information on mixed storage: KEEP SUBSTANCE AWAY FROM: oxidizing agents.
Storage area: Meet the legal requirements. Store in a cool area. Store in a well-ventilated place.
Special rules on packaging: meet the legal requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Alcohol (64-17-5)</th>
<th>ACGIH</th>
<th>ACGIH STEL (ppm)</th>
<th>1000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td></td>
<td>Remark (ACGIH)</td>
<td></td>
</tr>
<tr>
<td>OSHA</td>
<td></td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>1900 mg/m³</td>
</tr>
<tr>
<td>OSHA</td>
<td></td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Personal protective equipment: Use appropriate personal protective equipment when risk assessment indicates this is necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid
Appearance: Premoistened wipe.
Odor: Pleasant scent
Odor threshold: No data available
pH: No data available
Melting point: No data available
Freezing point: No data available
Boiling point: > 95 °F
Flash point: 70 °F Closed Cup - Tested using the liquid component of the towelette
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): No data available
Explosion limits: No data available
Explosive properties: No data available
Oxidizing properties: No data available
Vapor pressure: No data available
Relative density: No data available
Relative vapor density at 20 °C: No data available
Specific gravity / density: 0.88 g/ml
Solubility: Liquid component is soluble in water.
Log Pow: No data available
Log Kow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
VOC content: < 75 % - Tested using the liquid component of the towelette

SECTION 10: Stability and reactivity

10.1. Reactivity

Upon combustion: CO and CO2 are formed.
10.2. Chemical stability
No additional information available

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
No additional information available

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

**Linear Alcohol Ethoxylate (34398-01-1)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 1400 mg/kg</td>
</tr>
</tbody>
</table>

**ethanol (64-17-5)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 16000 mg/kg (Rabbit; Literature study)</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>10740 mg/kg body weight</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity – single exposure: May cause drowsiness or dizziness.

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: Contact during a long period may cause slight irritation.

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

Symptoms/effects after ingestion: Gastrointestinal complaints.

SECTION 12: Ecological information

12.1. Toxicity

**Linear Alcohol Ethoxylate (34398-01-1)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>&lt; 10 mg/l</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&lt; 10 mg/l</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>&lt; 10 mg/l</td>
</tr>
</tbody>
</table>

**ethanol (64-17-5)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>14200 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

**ethanol (64-17-5)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
<td>0.8 - 0.967 g O₂/g substance</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>1.7 g O₂/g substance</td>
</tr>
<tr>
<td>ThOD</td>
<td>2.1 g O₂/g substance</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>0.43</td>
</tr>
</tbody>
</table>
12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>BCF (Other; 72 h; Cyprinus carpio; Static system; Fresh water; Read-across)</th>
<th>Log Pow</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (64-17-5)</td>
<td>1</td>
<td>-0.31</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste treatment methods: Do not flush wipes. Dispose of contents/container to comply with local/regional/national/international regulations.

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

SECTION 14: Transport information

Department of Transportation (DOT)

Transport document description: UN3175 Solids containing flammable liquid, n.o.s. (Ethanol), 4.1, II

UN-No. (DOT): UN3175

Proper Shipping Name (DOT): Solids containing flammable liquid, n.o.s.


Hazard labels (DOT): 4.1 - Flammable solid

DOT Symbols: G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.120): 47,IB6,IP2,T3,TP33

DOT Exception (49 CFR 173.xxx): 151

DOT Quantity Limitations: 15 kg

DOT Vessel Stowage Location: B

Emergency Response Guide (ERG) Number: 133

Additional information: This product may be eligible to be shipped as a Limited Quantity or Consumer Commodity ORM-D utilizing the exception found at 49 CFR 173.151.

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.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Linear Alcohol Ethoxylate (34398-01-1)
SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard

California Proposition 65 - This product does not contain substances known to the state of California to cause cancer and/or reproductive toxicity.

**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:**

<table>
<thead>
<tr>
<th>H225</th>
<th>Highly flammable liquid and vapor</th>
</tr>
</thead>
<tbody>
<tr>
<td>H228</td>
<td>Flammable solid</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
</tbody>
</table>

**NFPA health hazard**: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

**NFPA fire hazard**: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

**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.*