SECTION 1: Product and company identification

Product name: Convert
Use of the substance/mixture: Metal treatment
Product code: 0347
Company: Total Solutions
  P.O. Box 245013
  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

Classification (GHS-US)
STOT RE 2 H373
Full text of H-phrases: see section 16

2.2. Label elements

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

Signal word (GHS-US): Warning
Hazard statements (GHS-US): May cause damage to organs (liver) through prolonged or repeated exposure
Precautionary statements (GHS-US):
  Do not breathe vapors
  Get medical advice/attention if you feel unwell
  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. Substance
Not applicable
Full text of H-phrases: see section 16

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycol Ether EB</td>
<td>(CAS No) 111-76-2</td>
<td>1 - 5</td>
<td>Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2, H373 Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>Ethanediol, ethylene glycol</td>
<td>(CAS No) 107-21-1</td>
<td>0.5 - 1</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
</tbody>
</table>

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: Get medical advice/attention if you feel unwell. Remove the victim into fresh air.
First-aid measures after skin contact: Rinse skin with water/shower.
First-aid measures after eye contact: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing.
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/injuries: May cause damage to organs (liver) through prolonged or repeated exposure.
Symptoms/injuries after inhalation: None under normal use.
Symptoms/injuries after skin contact: Repeated exposure to this material can result in absorption through skin causing significant health hazard.
Symptoms/injuries after eye contact: Direct contact with the eyes is likely irritating.
Symptoms/injuries after ingestion: Abdominal pain.

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

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 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: 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. Keep only in original container.
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
8.2. Exposure controls
Personal protective equipment: Gloves, Safety glasses, Protective clothing. 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: Liquid
Appearance: Beige, opaque emulsion.
Odor: Bland odor
Odor threshold: No data available
pH: 1.5 - 2.5
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: > 200 °F
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: 1.06 g/ml
Solubility: No data available
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: <= 3 %

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Oral LD50 (mg/kg)</th>
<th>Dermal LD50 (mg/kg)</th>
<th>ATE CLP (oral) (mg/kg)</th>
<th>ATE CLP (dermal) (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanediol, ethylene glycol (107-21-1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>4700</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td></td>
<td>10626</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td></td>
<td>500.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATE CLP (dermal)</td>
<td></td>
<td>10626.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycol Ether EB (111-76-2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>1300</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td></td>
<td>&gt; 2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td></td>
<td>1300.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATE CLP (dermal)</td>
<td></td>
<td>1100.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATE CLP (dust, mist)</td>
<td></td>
<td>1.500 mg/l/4h</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Skin corrosion/irritation

- Not classified
- pH: 1.5 - 2.5

### Respiratory or skin sensitization

- Not classified

### Germ cell mutagenicity

- Not classified

### Carcinogenicity

- Not classified

### Glycol Ether EB (111-76-2)

- IARC group: 3 - Not Classifiable
- Reproductive toxicity: Not classified
- Specific target organ toxicity (single exposure): Not classified
- Specific target organ toxicity (repeated exposure): May cause damage to organs (liver) through prolonged or repeated exposure.

### Ecological information

#### Glycol Ether EB (111-76-2)

- LC50 fish 1: 1474 mg/l Oncorhynchus mykiss
- EC50 Daphnia 1: 100 mg/l Water flea
- ErC50 (algae): 1840 mg/l Pseudokirchneriella subcapitata
- NOEC chronic fish: > 100 mg/l
- NOEC chronic crustacea: 100 mg/l daphnid

### 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>Chemical (s)</th>
<th>CAS No</th>
<th>RQ (Reportable quantity)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol, ethylene glycol</td>
<td>107-21-1</td>
<td>5000 lb</td>
</tr>
<tr>
<td>Glycol Ether EB</td>
<td>111-76-2</td>
<td></td>
</tr>
</tbody>
</table>

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) 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>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asp. Tox. 1</td>
<td>Aspiration hazard Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Flam. Liq. 4</td>
<td>Flammable liquids Category 4</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity (repeated exposure) Category 2</td>
</tr>
<tr>
<td>H227</td>
<td>Combustible liquid</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard: 0 - Materials that will not burn.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

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.