SECTION 1: Product and company identification

Product name: Rust Converter
Use of the substance/mixture: Metal treatment
Product code: 0346
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): GHS08

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, STOT RE 2, H373, Asp. Tox. 1, H304</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.
Rust Converter
Safety Data Sheet

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

<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>Beige, opaque emulsion.</td>
</tr>
<tr>
<td>Odor</td>
<td>Bland odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>1.5 - 2.5</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</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>Explosive limits</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>1.13 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>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC content</td>
<td>&lt;= 3 %</td>
</tr>
</tbody>
</table>

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

Glycol Ether EB (111-76-2)

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Limitation</th>
<th>Limitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral</td>
<td>1300 mg/kg</td>
<td></td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>&gt; 2000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>1300.000 mg/kg body weight</td>
<td></td>
</tr>
<tr>
<td>ATE CLP (dermal)</td>
<td>1100.000 mg/kg body weight</td>
<td></td>
</tr>
<tr>
<td>ATE CLP (dust, mist)</td>
<td>1.500 mg/l/4h</td>
<td></td>
</tr>
</tbody>
</table>
Skin corrosion/irritation: Not classified
    pH: 1.5 - 2.5
Serious eye damage/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.

Glycol Ether EB (111-76-2)
LOAEL (oral, rat, 90 days): 69 mg/kg bodyweight/day Target organ: liver
NOAEL (dermal, rat/rabbit, 90 days): 150 mg/kg bodyweight/day

Aspiration hazard: Not classified
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.

SECTION 12: Ecological information
12.1. Toxicity
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

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Waste treatment methods: Dispose of contents/container to comply with local/regional/national/international 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>Chemical(s)</th>
<th>CAS No</th>
<th>P游击初</th>
<th>1.0 – 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycol Ether EB</td>
<td>111-76-2</td>
<td></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>H-phrases</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral) Category 4</td>
</tr>
<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.