Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200 Standard must be consulted for specific requirements.

IDENTITY (As Used on Label and List)
Code 104, 1048
Tank Shield

Section I

Manufacturer's Name
RUTLAND PRODUCTS
Address (Number, Street, City, State, and Zip Code)
7 CRAB TREE ROAD
JACKSONVILLE, IL 62650

Emergency Telephone Number
CHEMTREC 800-424-9300

Telephone Number Information
217-245-7963

Date Prepared
Aug 1990

Date Revised
Jun-98

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Chemical Identity CAS # OSHA PEL ACGIH TLV Recommended % (optional)
Mineral Spirits 64742-47-8 500 ppm 100 ppm
Copper Naphthenate 01338-02-9 1mg/m³ 1mg/m³
Diethanolamine 00111-42-2 15mg/m³ 15mg/m³

HMIS Rating - Health: 2 Flammability: 2 Reactivity: 0

Section III - Physical/Chemical Characteristics

Boiling Point 315 - 333°F Specific Gravity (H₂O = 1)
Directly related to material density at same temperature and pressure.

Vapor Pressure (mm Hg) Approx. 5 @ 68°F Melting Point Not applicable

Vapor Density (Air = 1) Evaporation Rate (Butyl Acetate = 1)
Approx. 0.47

Solubility in Water Insoluble

Appearance and Odor Green liquid, consistency and odor of mineral spirits.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) Flammable Limits LEL UEL
104°F TOC 1% 6%

Extinguishing Media Water spray, foam, carbon dioxide, or dry chemical.

Special Fire Fighting Procedures Burning may produce toxic combustion products. Wear self-contained breathing apparatus and full turn-out gear to fight fires.

Unusual Fire and Explosion Hazards Exposure to heat builds up pressure in closed containers. Cool with water stream.

The information presented herein is based either on data or opinion. Such data is, to the best of our knowledge, true and accurate. Such opinion is believed to be expert, and therefore generally reliable, but in some instances there are conflicts in expert opinion and in these instances we have relied on the opinion which, in our best judgment, appeared the most reasonable. All information herein is presented without guarantee or warranty and Rutland Products disclaims any liability incurred from the use thereof.
### Section V - Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unstable</td>
<td>Avoid exposure to high heat.</td>
</tr>
<tr>
<td>Stable</td>
<td>X</td>
</tr>
</tbody>
</table>

**Incompatibility (Materials to Avoid)**
Can react with strong oxidants. Hydrolyzed by strong acids or bases.

**Hazardous Decomposition or Byproducts**
Burning may produce carbon monoxide and/or copper fume.

<table>
<thead>
<tr>
<th>Hazardous Polymerization</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>May Occur</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Will Not Occur</td>
<td>X</td>
</tr>
</tbody>
</table>

### Section VI - Health Hazard Data

<table>
<thead>
<tr>
<th>Route(s) of Entry</th>
<th>Inhalation</th>
<th>Skin</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Health Hazards (Acute and Chronic)**
Contact with eyes will cause irritation. Will cause skin irritation upon prolonged or repeated contact. May be absorbed through the skin. Inhalation may cause headache, incoordination, may produce narcosis in high concentration. Ingestion causes gastrointestinal irritation, vomiting, depression.

**Carcinogenicity**
- NTP®: No
- IARC Monographs®: No
- OSHA Regulated®: No

**Signs and Symptoms of Exposure**
*See health hazards above.*

**Medical Conditions Generally Aggravated by Exposure**

**Asthma and diseases of the respiratory system.**

**Emergency and First Aid Procedures**
- Ingestion: do not induce vomiting. Aspiration may lead to pneumonitis. Call a physician.
- Inhalation: remove victim to fresh air. Administer artificial respiration if needed. Call a physician.
- Contact: wash skin with soap and water. Flush eyes with water. Call a physician.

### Section VII - Precautions for Safe Handling and Use

**Steps to Be Taken in Case Material is Released or Spilled**
Remove sources of ignition and ventilate area.

**Cover with inert absorbant material and remove to disposal container.**

**Waste Disposal Method**
Dispose of in accord with federal, state and local laws.

**Precautions to Be Taken in Handling and Storing**
Keep away from heat and flame. Avoid breathing vapors.

**Use adequate ventilation. Avoid contact with eyes, skin, clothing.**

### Section VIII - Control Measures

**Respiratory Protection (Specify Type)**
If exposure exceeds TLV's, use appropriate NIOSH approved respiratory masks.

**Ventilation**
- Local Exhaust: Recommended
- Mechanical (General): Special
- Other:

**Protective Gloves**
- Eye Protection: Splash goggles or full face shield.
- Other Protective Clothing or Equipment:

**Impermeable, chemical-handling type.**

**Impermeable apron, eye wash fountain, safety shower.**

**Work/Hygiene Practices**
Wash hands after using.
NAME OF PRODUCT:  Tank Shield

This product contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III.

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>% WT</th>
</tr>
</thead>
<tbody>
<tr>
<td>00111-42-2</td>
<td>Diethanolamine</td>
<td>0.25%</td>
</tr>
<tr>
<td>01338-02-9</td>
<td>Copper</td>
<td>0.46%</td>
</tr>
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</table>