MATERIAL SAFETY DATA SHEET

UNITED 128
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To Reorder Call: 800-323-2594

1. PRODUCT AND COMPANY IDENTIFICATION
PRODUCT NAME
UNITED 128 BRASS PAK
USE/DESCRIPTION
Tarnish Remover and Metal Polish
REVISION DATE
January 21, 2008

HEALTH (0 = Maximum Safety) 1
Always follow Label Directions and Cautions.
4 Extreme 3 High 2 Moderate 1 Slight 0 Minimal
See Hazards Identification Section of this MSDS for more detailed information.

REACTIVITY (0 = Maximum Safety) 1
Susceptible to Release of Energy.
4 May detonate-vacate area if materials are exposed to fire.
3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers.
2 Violent chemical change possible-use hose stream from distance.
1 Unstable if heated-use precaution.
0 Normally stable.

FLAMMABILITY (0 = Maximum Safety) 2
Susceptibility of Material to Burning.
4 Extremely flammable. 3 Ignites at normal temperature. 2 Ignites when moderately heated. 1 Must be preheated to burn. 0 Will not burn.

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>CAS#</th>
<th>%Range</th>
<th>ACGIH (TLV-TWA)</th>
<th>OSHA (PEL-TWA)</th>
<th>LD50 (Species/Route)</th>
<th>LC50 (Species)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citrus Terpene</td>
<td>5989-27-5</td>
<td>10-20</td>
<td>400 ppm</td>
<td>400 ppm</td>
<td>4400 mg/kg (rat/oral)</td>
<td>NE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2229 mg/m³</td>
<td>2229 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Microcrystalline Silica *</td>
<td>14808-60-7</td>
<td>5-15</td>
<td>0.05 mg/m³</td>
<td>10 mg/m³</td>
<td>8700 mg/kg (rat/oral)</td>
<td>NE</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oleic Acid</td>
<td>112-80-1</td>
<td>1-10</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>1-10</td>
<td>5 mg/m³</td>
<td>NE</td>
<td>8700 mg/kg (rat/oral)</td>
<td>NE</td>
</tr>
<tr>
<td>Liquefied Petroleum Gas</td>
<td>69476-86-8</td>
<td>1-10</td>
<td>1000 ppm</td>
<td>1000 ppm</td>
<td>1800 mg/m³</td>
<td>NE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1800 mg/m³</td>
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</tbody>
</table>

*Exposure limits are for dust form only of microcrystalline silica. This is not expected to pose a risk when used in accordance with label directions.

3. HAZARDS IDENTIFICATION

Eyes: May cause slight irritation but does not injure eye tissue.
Skin: Frequent or prolonged contact may cause irritation. May aggravate existing skin conditions.
Inhalation: May cause nasal and respiratory passage irritation, central nervous system depression at very high concentrations. While crystalline silica dust exposure can have severe health effects when inhaled at levels higher than the exposure limits listed in Section II.
Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis. Minimal toxicity.

4. FIRST AID MEASURES

Eyes: Flush with water for at least 15 minutes while holding eyelids open. Call a physician or poison control center immediately.
Skin: Wash with soap and water. Call a physician or poison control center immediately.
Inhalation: Remove to fresh air. Administer artificial respiration if needed. Call a physician or poison control center immediately.
Ingestion: DO NOT induce vomiting. Aspiration of material into lungs during vomiting can cause chemical pneumonitis. Call a physician or poison control center immediately.

5. FIRE FIGHTING MEASURES

Flash Point (TCC): 130°F/54°C (Conc. T.O.C.)
Explosive Limits: Lower (LEL): NE Upper (UEL): NE
Flame Projection (Aerosol): Non-Flammable Spray as per CSMA Flame Projection Test.
Hazardous Products of Combustion: When strongly heated, as in a fire, this product may produce carbon monoxide and carbon dioxide.
Fire and Explosion Hazards: At elevated temperatures (above 120°F/49°C) containers may vent, rupture, or burst, greatly increasing the fire hazard.
Extinguishing Media: Foam, Carbon Dioxide, Dry Media.
Fire Fighting Instructions: Wear self-contained breathing apparatus w/full protective clothing in chemical fires. Cool fire exposed containers to prevent rupturing.
6. ACCIDENTAL RELEASE MEASURES

**Small Spills:** Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. Keep sparks, heat sources and open flame far away from spill or leak. Soak up with an inert absorbent and place in designated disposal container. Wash area thoroughly.

**Large Spills:** Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. Keep sparks, heat sources and open flame far away from spill or leak. Soak up with an inert absorbent and place in designated disposal container. Wash area thoroughly.

7. HANDLING AND STORAGE

Keep out of reach of children. Store in a cool, dry area away from heat or open flame. Do not store at temperatures above 120°F/49°C. For Industrial and Institutional use only. NFPA Code 30B Rating: Level 1 Aerosol.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eyes:** Safety glasses or chemical splash goggles are recommended.

**Skin:** Chemical resistant gloves are recommended.

**Respiratory:** None needed for proper use in accordance with label directions. If ventilation is not adequate to reduce vapors below TLV levels, use a NIOSH approved air purifying respirator with organic vapor cartridges.

**Engineering Controls:** Provide local exhaust to keep vapor concentration below TLV and prevent accumulation of excessive vapors.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>212°F/100°C</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.973 @70°F/21°C (H2O=1)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>55 psig</td>
</tr>
<tr>
<td>Melting Point</td>
<td>ND</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&gt;1 (air=1)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>ND</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Complete</td>
</tr>
<tr>
<td>pH</td>
<td>8 – 8.6</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Aerosol, Milky white liquid/foam with citrus odor.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition:** When strongly heated, as in a fire, this product may produce carbon monoxide and carbon dioxide.

**Chemical Stability:** Stable

**Incompatibility:** Strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

**Carcinogenicity (NTP/IARC/OSHA):** Microcrystalline Silica CAS# 14808-60-7

**California Proposition 65:** Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

12. ECOLOGICAL INFORMATION

ND

13. DISPOSAL CONSIDERATIONS

Consult your local, state, provincial, and federal regulations for proper disposal guidelines. Do not puncture or incinerate containers. Disposal regulations may be different for each state and/or locality.

14. TRANSPORT INFORMATION

**DOT:** Available upon request

**TDG:** Available upon request

**UN:** Available upon request

15. REGULATORY INFORMATION

**VOC (Volatile Organic Compounds):** 27.78%

**TSCA (Toxic Substances Control Act):** Listed

**SARA Title III Section 302 EHS:** ND

**SARA Title III Section 311/312:** ND

**SARA Title III Section 313 Toxic Chemicals:** No

**WHMIS Classification:** This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/WHMIS) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.

UNITED 128 BRASS PAK

PREPARED BY: Sandy Kopacz