# Safety Data Sheet (SDS)

## 1 Identification of the substance and manufacturer

<table>
<thead>
<tr>
<th>Customer</th>
<th>Red Oxide Primer Paint</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name</td>
<td>Red Oxide Primer Paint</td>
</tr>
<tr>
<td>Product Number</td>
<td>4627</td>
</tr>
<tr>
<td>Manufacturer/Supplier</td>
<td>Rainbow Technology Corporation</td>
</tr>
<tr>
<td>Contact Person</td>
<td>Larry Joe Steelley, Jr.</td>
</tr>
<tr>
<td>Emergency Information</td>
<td>CHEMTHEL 1-800-255-3924</td>
</tr>
<tr>
<td></td>
<td>813-248-0585 if located outside the U.S.</td>
</tr>
</tbody>
</table>

## 2 Hazard(s) identification

### Classification of the substance or mixture

| Flam. Aerosol 1 | H222 | Extremely flammable aerosol. |
| Press. Gas | H280 | Contains gas under pressure; may explode if heated. |
| Skin Irrit. 2 | H315 | Causes skin irritation. |
| Eye Irrit. 2A | H319 | Causes serious eye irritation. |
| Repr. 2 | H361 | Suspected of damaging fertility or the unborn child. |
| STOT SE 3 | H336 | May cause drowsiness or dizziness. |
| STOT RE 2 | H373 | May cause damage to organs through prolonged or repeated exposure. |

### GHS Hazard pictograms

GHS02 GHS04 GHS07 GHS08

### Signal word

Danger

### Hazard statements

- Contains gas under pressure; may explode if heated.
- Causes skin irritation.
- Causes serious eye irritation.
- Suspected of damaging fertility or the unborn child.
- May cause drowsiness or dizziness.
- May cause damage to organs through prolonged or repeated exposure.

### Precautionary statements

- Obtain special instructions before use.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Do not spray on an open flame or other ignition source.
- Pressurized container: Do not pierce or burn, even after use.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wear protective gloves.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- 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 poison center/doctor if you feel unwell.
- If skin irritation occurs: Get medical advice/attention.
- If on skin: Wash with plenty of water.
- If eye irritation persists: Get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- Store locked up.
- Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- Store in a well-ventilated place. Keep container tightly closed.
- Dispose of contents/container in accordance with local/regional/national/international regulations.
## 3 Composition/information on ingredients

**Chemical characterization:** Mixtures  
**Chemical Description:** This product is a mixture of the substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 Acetone</td>
<td>25.11%</td>
</tr>
<tr>
<td>74-98-6 propane</td>
<td>13.87%</td>
</tr>
<tr>
<td>106-97-8 n-butane</td>
<td>8.15%</td>
</tr>
<tr>
<td>108-88-3 Toluene</td>
<td>6.57%</td>
</tr>
<tr>
<td>64742-89-8 VM&amp;P Naphtha</td>
<td>5.97%</td>
</tr>
<tr>
<td>1309-37-1 red iron oxide pigment</td>
<td>4.41%</td>
</tr>
<tr>
<td>64-17-5 ethyl alcohol</td>
<td>4.12%</td>
</tr>
<tr>
<td>1330-20-7 xylene (mix)</td>
<td>3.57%</td>
</tr>
<tr>
<td>14807-96-6 Talc</td>
<td>3.38%</td>
</tr>
<tr>
<td>123-86-4 n-butyl acetate</td>
<td>2.89%</td>
</tr>
<tr>
<td>64742-47-8 Mineral Spirits</td>
<td>1.93%</td>
</tr>
<tr>
<td>110-19-0 isobutyl acetate</td>
<td>1.68%</td>
</tr>
<tr>
<td>108-65-6 PM acetate</td>
<td>1.03%</td>
</tr>
<tr>
<td>67-63-0 isopropyl alcohol</td>
<td>1.02%</td>
</tr>
<tr>
<td>67-56-1 methanol</td>
<td>0.64%</td>
</tr>
<tr>
<td>1330-20-7 xylene (mix)</td>
<td>0.64%</td>
</tr>
<tr>
<td>108-65-6 PM acetate</td>
<td>0.64%</td>
</tr>
<tr>
<td>123-86-4 n-butyl acetate</td>
<td>0.64%</td>
</tr>
<tr>
<td>64742-47-8 Mineral Spirits</td>
<td>0.64%</td>
</tr>
<tr>
<td>110-19-0 isobutyl acetate</td>
<td>0.64%</td>
</tr>
</tbody>
</table>

## 4 First-aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.  
- **After skin contact:** Remove contaminated clothing. Wash exposed area with soap and water. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
- **After eye contact:** Rinse mouth with water. Do not induce vomiting.  
- **After swallowing:** Rinse mouth with water. Do not induce vomiting.  
- **Most important symptoms and effects:** Dizziness  
- **Indication of any immediate medical attention needed:** No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing agents:** CO2, extinguishing powder or water spray. Fight larger fires with water spray.  
- **Special hazards:** Can form explosive gas-air mixtures.  
- **Protective equipment for firefighters:** A respiratory protective device may be necessary.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:** Use respiratory protective device against the effects of fumes/dust/aerosol.  
- **Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to section 13.

## 7 Handling and storage

- **Precautions for safe handling:** Use only in well ventilated areas. Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Store locked up.

## 8 Exposure controls/personal protection

**Components with limit values that require monitoring at the workplace:**

<table>
<thead>
<tr>
<th>Component</th>
<th>TLV (USA)</th>
<th>REL (USA)</th>
<th>PEL (USA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 Acetone</td>
<td>Long-term value: 2400 mg/m³, 1000 ppm</td>
<td>Long-term value: 590 mg/m³, 250 ppm</td>
<td>Long-term value: 2400 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>74-98-6 propane</td>
<td>Long-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm</td>
<td>Long-term value: (1188) NIC-594 mg/m³, (500) NIC-250 ppm</td>
<td>Long-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm</td>
</tr>
<tr>
<td>106-97-8 n-butane</td>
<td>Long-term value: 1800 mg/m³, 1000 ppm</td>
<td>Long-term value: 1800 mg/m³, 1000 ppm</td>
<td>Long-term value: 1800 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>108-88-3 Toluene</td>
<td>Long-term value: 1900 mg/m³, 800 ppm</td>
<td>Long-term value: 2370 mg/m³, 1000 ppm</td>
<td>Long-term value: 2370 mg/m³, 1000 ppm</td>
</tr>
</tbody>
</table>
### Ingredients with biological limit values:

#### 67-64-1 Acetone

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Medium</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI (USA)</td>
<td>50 mg/L</td>
<td>urine</td>
<td>end of shift</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(nonspecific)</td>
</tr>
</tbody>
</table>

#### 108-88-3 Toluene

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Medium</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI (USA)</td>
<td>0.02 mg/L</td>
<td>blood</td>
<td>prior to last shift of workweek</td>
</tr>
<tr>
<td></td>
<td>0.03 mg/L</td>
<td>urine</td>
<td>end of shift</td>
</tr>
<tr>
<td></td>
<td>0.3 mg/g creatinine</td>
<td>urine</td>
<td>end of shift</td>
</tr>
</tbody>
</table>

#### 1330-20-7 xylene (mix)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Medium</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI (USA)</td>
<td>1.5 g/g creatinine</td>
<td>urine</td>
<td>end of shift</td>
</tr>
</tbody>
</table>

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### Fire-fighting measures

- **Product name:** RED IRON OXIDE PRIMER
- **Class:** 2.1 Flammable
- **Flash point:** -19 °C (-2 °F)
- **Boiling point:** -44 °C (-47 °F)
- **Decomposition temperature:** Undetermined.
- **Odor threshold:** Not determined.
- **Solvent:** Toluene

#### Extinguishing media

- Water
- Carbon dioxide
- Foam

#### Special hazards

- Can form explosive gas-air mixtures.

#### Equipment and emergency procedures:

- Use only in well ventilated areas.
- Keep away from sources of heat and direct sunlight.
- Do not warehouse in subfreezing temperatures.
- Keep away from open flame and excess heat.

#### Protective equipment for firefighters:

- A respiratory protective device may be necessary.
- Protective equipment for other personnel:
  - Eye protection: Tightly sealed goggles
  - Hand protection: Protective gloves
  - Respiratory protection: A respirator is generally not necessary when using this product outdoors or in large open areas.

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### Handling and storage

- **Trade name:** RED IRON OXIDE PRIMER
- **Class:** 3.0 (flammable)
- **Flash point:** -19 °C (-2 °F)
- **Boiling point:** -44 °C (-47 °F)
- **Decomposition temperature:** Undetermined.
- **Odor threshold:** Not determined.

#### Hygienic protection:

- Immediately remove all soiled and contaminated clothing.
- Wash hands after use.

#### Storage requirements:

- Keep away from sources of heat and direct sunlight.
- Do not warehouse in subfreezing temperatures.
- Keep away from open flame and excess heat.

#### In cases where short and/or long term overexposure exists:

- A charcoal filter respirator should be used.
- In cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn.

#### Special hazards:

- Can form explosive gas-air mixtures.

#### Extinguishing media:

- Water
- Carbon dioxide
- Foam

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### Accidental release measures

- **Physical and chemical properties**
- **Exposure controls/personal protection**
- **Handling and storage**
- **Accidental release measures**
- **Fire-fighting measures**
- **Health effects**
- **Hygiene**
- **Medical emergencies**
9 Physical and chemical properties

Appearance: Aerosol.
Odor: Solvent
Odor threshold: Not determined.
pH-value: Not determined.
Melting point/Melting range: Undetermined.
Boiling point: -44 °C (-47 °F)
Flash point: -19 °C (-2 °F)
Flammability (solid, gas): Extremely flammable.
Decomposition temperature: Not determined.
Auto igniting: Product is not self-igniting.
Danger of explosion: In use, may form flammable/explosive vapour-air mixture.
Lower Explosion Limit: 1.7 Vol %
Upper Explosion Limit: 10.9 Vol %
Vapor pressure: Not determined.
Relative Density: Between 0.77 and 0.85 (Water equals 1.00)
Vapour density Not determined.
Evaporation rate: Not applicable.
Partition coefficient: n-octonal/water: Not determined.
Solubility: Not determined.
Viscosity: Not determined.
VOC content: 555.0 g/l / 4.63 lb/gl
VOC content (less exempt solvents): 52.7 %
MIR Value: 1.12
Solids content: 21.8 %
11 Toxicological information

LD/LC50 values that are relevant for classification:

106-97-8 n-butane
Inhalative LC50/4 h 658 mg/l (rat)

1309-37-1 red iron oxide pigment
Oral LD50 >5000 mg/kg (rat)

64-17-5 ethyl alcohol
Oral LD50 >20000 mg/l (rat)

1330-20-7 xylene (mix)
Oral LD50 >21.0 mg/l (rat)

123-86-4 n-butyl acetate
Oral LD50 >8500 mg/kg (rat)

110-19-0 isobutyl acetate
Oral LD50 14000 mg/kg (rat)

108-65-6 PM acetate
Oral LD50 >20000 mg/kg (rat)

67-63-0 isopropyl alcohol
Oral LD50 8500 mg/kg (rat)

8700 mg/kg (rat)

67-63-0 isopropyl alcohol
Oral LD50 13000 mg/kg (rat)

67-56-1 methanol
Oral LD50 13000 mg/kg (rat)

Information on toxicological effects:
Skin effects: No irritant effect.
Eye effects: No sensitizing effects known.

Carcinogenic categories
IARC (International Agency for Research on Cancer)
108-88-3 Toluene 3
1309-37-1 red iron oxide pigment 3
64-17-5 ethyl alcohol 1
1330-20-7 xylene (mix) 2B
14807-96-6 Talc 3
67-63-0 isopropyl alcohol 3

NTP (National Toxicology Program)
None of the ingredients is listed.

12 Ecological information

Aquatic toxicity: Hazardous for water, do not empty into drains.
Persistence and degradability: The product is degradable after prolonged exposure to natural weathering processes.
Bioaccumulative potential: No further relevant information available.
Mobility in soil: No further relevant information available.
Other adverse effects: No further relevant information available.

13 Disposal considerations
Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.
Recommendation: Completely empty cans should be recycled.

14 Transport information
UN-Number UN1950
DOT N/A
DOT Consumer Commodity ORM-D
13 Disposal considerations

Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.

Recommendation:

Completely empty cans should be recycled.

14 Transport information

<table>
<thead>
<tr>
<th>ADR</th>
<th>UN-Number</th>
<th>DOT</th>
<th>Consumer Commodity ORM-D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UN1950</td>
<td>N/A</td>
<td>Aerosols, flammable</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Warning: Gases</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>F-D,S-U</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>On passenger aircraft/rail: 75 kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>On cargo aircraft only: 150 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMDG</th>
<th>UN &quot;Model Regulation&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UN1950, Aerosols, 2.1</td>
</tr>
</tbody>
</table>

15 Regulatory information

**SARA Section 355 (extremely hazardous substances):**

None of the ingredients in this product are listed.

**SARA Section 313 (Specific toxic chemical listings):**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>xylene (mix)</td>
</tr>
<tr>
<td>67-63-0</td>
<td>isopropyl alcohol</td>
</tr>
</tbody>
</table>

**CPSC:** This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

**California Proposition 65 chemicals known to cause cancer:**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4</td>
<td>ethyl benzene</td>
</tr>
<tr>
<td>108-10-1</td>
<td>methyl isobutyl ketone</td>
</tr>
</tbody>
</table>

**California Proposition 65 chemicals known to cause developmental toxicity:**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
</tr>
<tr>
<td>67-56-1</td>
<td>Methanol</td>
</tr>
</tbody>
</table>

**CANADIAN ENVIRONMENTAL PROTECTION ACT:** All hazardous ingredients for this product appear on the Canadian Domestic Substance List.

**EPA:**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>Acetone</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>xylene (mix)</td>
</tr>
<tr>
<td>110-19-0</td>
<td>isobutyl acetate</td>
</tr>
</tbody>
</table>

16 Other information

**Contact:** Larry Joe Steeley, Jr.

1-800.637.6047