1 Identification of the substance and manufacturer

MANUFACTURER/DISTRIBUTOR: Rainbow Technology Corporation (800) 637-6047
CONTACT PERSON: Larry Joe Steeley, Jr.
EMERGENCY PHONE (24 HRS): Chem-Tel Inc. (800) 255-3924
TRADE NAME: Orange Chalk Temporary Water-Based Marking Paint
PRODUCT NUMBER: 46987
ISSUE DATE: June 8, 2015
REPLACES MSDS DATED: September 7, 2010

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.
Carc. 2 H351 Suspected of causing cancer.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

GHS Hazard pictograms

Signal word
Danger

Hazard statements
Contains gas under pressure; may explode if heated.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary statements
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
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.
Do not handle until all safety precautions have been read and understood.
Avoid breathing 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.
If eye irritation persists: Get medical advice/attention.
If inhaled: Get medical advice/attention.
Store locked up.
Keep away from heat/sparks/open flames/hot surfaces.
Protect from sunlight.
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>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 Acetone</td>
<td>26.06%</td>
</tr>
<tr>
<td>1317-85-3 Calcium Carbonate</td>
<td>19.36%</td>
</tr>
<tr>
<td>74-98-6 propane</td>
<td>17.84%</td>
</tr>
<tr>
<td>67-63-0 Isopropyl alcohol</td>
<td>15.18%</td>
</tr>
<tr>
<td>106-97-8 n-butane</td>
<td>10.36%</td>
</tr>
<tr>
<td>2807-30-9 Glycol Ether EP</td>
<td>3.72%</td>
</tr>
</tbody>
</table>

(Contd. on page 2)
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.
After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing: Rinse mouth with water. Do not induce vomiting.
Most important symptoms and effects: Dizziness
Indication of any immediate medical attention needed: If you suspect overexposure conditions exist, please consult an authority on chemical hygiene.
Precautions for safe handling: Avoid contact with the eyes and skin.
Wash hands after use.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures: A respiratory protective device may be necessary.
Methods and material for containment and cleaning up: Use respiratory protective device against the effects of fumes/dust/aerosol.
Absorb liquid components with liquid-binding material.

7 Handling and storage

Precautions for safe handling: Use only in well ventilated areas.
Storage requirements: 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>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>Long-term value: 2400 mg/m³, 1000 ppm</td>
<td>Long-term value: 590 mg/m³, 250 ppm</td>
<td>Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm Long-term value: (1188) NIC-594 mg/m³, (500) NIC-250 ppm</td>
</tr>
<tr>
<td>propane</td>
<td>Long-term value: 1800 mg/m³, 1000 ppm</td>
<td>Long-term value: 1800 mg/m³, 1000 ppm</td>
<td>refer to Appendix F</td>
</tr>
<tr>
<td>isopropyl alcohol</td>
<td>Long-term value: 980 mg/m³, 400 ppm</td>
<td>Long-term value: 980 mg/m³, 400 ppm</td>
<td>Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm</td>
</tr>
<tr>
<td>n-butane</td>
<td>Long-term value: 1900 mg/m³, 800 ppm</td>
<td>Short-term value: 2370 mg/m³, 1000 ppm</td>
<td></td>
</tr>
</tbody>
</table>

Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Component</th>
<th>BEI (USA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>50 mg/L</td>
</tr>
<tr>
<td>isopropyl alcohol</td>
<td>40 mg/L</td>
</tr>
</tbody>
</table>

Hygienic protection: Immediately remove all soiled and contaminated clothing. Wash hands after use. Avoid contact with the eyes and skin. Do not eat or drink while working.

Breathing equipment: A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn. If you suspect overexposure conditions exist, please consult an authority on chemical hygiene.

Hand protection: Protective gloves. The glove material must be impermeable and resistant to the substance.

Eye protection: Tightly sealed goggles
9 Physical and chemical properties

Appearance: Aerosol.
Odor: Aromatic
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: 1.5 Vol %
Upper Explosion Limit: 12.0 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-octanol/water: Not determined.
Solubility: Not determined.
Viscosity: Not determined.
VOC content: 542.5 g/l / 4.53 lb/gl
VOC content (less exempt solvents): 48.0 %
Water: 1.6 %
MIR Value: 0.69
Solids content: 23.6 %

10 Stability and reactivity

Reactivity: Stable at normal temperatures.
Conditions to avoid: Do not allow can to exceed 120 degrees Fahrenheit. Do not warehouse in subfreezing temperatures.
Chemical stability: Not fully evaluated.
Possibility of hazardous reactions: No dangerous reactions known.
Incompatible materials: No further relevant information available.
Hazards of decomposition: No dangerous decomposition products known.

11 Toxicological information

LD/LC50 values that are relevant for classification:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalative LC50/4h</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0 isopropyl alcohol</td>
<td>13400 mg/kg (rab)</td>
<td>13400 mg/kg (rab)</td>
<td>30 mg/l (rat)</td>
</tr>
</tbody>
</table>

106-97-8 n-butane

<table>
<thead>
<tr>
<th>Substance</th>
<th>Inhalative LC50/4h</th>
</tr>
</thead>
<tbody>
<tr>
<td>106-97-8 n-butane</td>
<td>658 mg/l (rat)</td>
</tr>
</tbody>
</table>

Information on toxicological effects:

- No data available.
- Skin effects: No irritant effect.
- Eye effects: Irritating effect.
- Sensitization: No sensitizing effects known.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

67-63-0 isopropyl alcohol

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

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>N/A</td>
</tr>
<tr>
<td>DOT</td>
<td>Consumer Commodity ORM-D</td>
</tr>
<tr>
<td>ADR</td>
<td>1950 Aerosols</td>
</tr>
<tr>
<td>Transport hazard class(es):</td>
<td>2.1</td>
</tr>
<tr>
<td>Class</td>
<td>2.1</td>
</tr>
<tr>
<td>Marine pollutant:</td>
<td>No</td>
</tr>
<tr>
<td>Special precautions for user:</td>
<td>Warning: Gases</td>
</tr>
<tr>
<td>EMS Number:</td>
<td>F-D,S-U</td>
</tr>
<tr>
<td>Quantity limitations</td>
<td>On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg</td>
</tr>
</tbody>
</table>

**ADR**

- Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity

**IMDG**

- Limited quantities (LQ) 1L
- Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity
- Packaging Group: --
- UN "Model Regulation": UN1950, Aerosols, 2.1

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):**

- 67-63-0 isopropyl alcohol
- 67-64-1 Acetone

**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:**

- 13463-67-7 Titanium dioxide

**CANADIAN ENVIRONMENTAL PROTECTION ACT:**

All hazardous ingredients for this product appear on the Canadian Domestic Substance List.

**EPA:**

- 67-64-1 Acetone

16 Other information

**Contact:** Larry Joe Steeley, Jr. 800-637-6047

**Date of preparation / last revision:** 06/08/2015 / -