Safety Data Sheet

Revision Date: 03-10-2016
Product Code: 2303

1. IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>HALLIBURTON RED AEROSOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>2303</td>
</tr>
<tr>
<td>Document ID</td>
<td>G2303</td>
</tr>
<tr>
<td>Revision Number</td>
<td>1</td>
</tr>
<tr>
<td>Prior Version Date</td>
<td>None</td>
</tr>
<tr>
<td>Intended Use</td>
<td>Aerosol Paint</td>
</tr>
<tr>
<td>Restrictions On Use</td>
<td>For Industrial Use Only</td>
</tr>
<tr>
<td>Chemical Family</td>
<td>Alkyd Enamel</td>
</tr>
<tr>
<td>Synonyms</td>
<td>DIMETHYLMETHANE</td>
</tr>
<tr>
<td>Chemical Manufacturer / Importer</td>
<td>Hempel (USA), Inc.</td>
</tr>
<tr>
<td></td>
<td>Jones-Blair Division</td>
</tr>
<tr>
<td></td>
<td>2728 Empire Central</td>
</tr>
<tr>
<td></td>
<td>Dallas, TX 75235</td>
</tr>
<tr>
<td></td>
<td>1-214-353-1600</td>
</tr>
<tr>
<td>Emergency Telephone Number:</td>
<td>ChemTrec Center 1-800-424-9300</td>
</tr>
<tr>
<td></td>
<td>International: 703-527-3887</td>
</tr>
</tbody>
</table>

2. HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**Hazard Pictograms**

GHS Classification
- Skin Sensitisation Category 1
- Flammable Aerosol Category 2
- Skin Corrosion/Irritation Category 2
- Serious Eye Damage/Eye Irritation Category 2
- Carcinogenicity Category 2
- Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

**Signal Word**
- Warning

**Hazard Statements**
- Flammable aerosol. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer.

**Precautionary Statements**

**Prevention**
- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and 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. Avoid breathing dust, fume, mist, vapours or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection and face protection. Use personal protective equipment.
Response

IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position 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 exposed or concerned: Get medical attention. Call a POISON CENTER or physician if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing and wash before reuse.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards Not Otherwise Classified (HNOC)

Not applicable

Additional Information

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Component</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>15 - 40</td>
</tr>
<tr>
<td>Parachlorobenzotrifluoride (PCBTF)</td>
<td>98-56-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Ethylene glycol mono-n-butyl ether</td>
<td>111-76-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Light aromatic solvent naphtha</td>
<td>64742-95-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>95-63-6</td>
<td>0.5 - 1.5</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Methyl Ethyl Ketoxime</td>
<td>96-29-7</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>4-Methyl-2-pentanone</td>
<td>108-10-1</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Inhalation

Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

Eye Contact

Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact

Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion

If swallowed, do not induce vomiting. Get medical attention immediately.

Most Important Acute Symptoms and Effects

Not Available

Most Important Delayed Symptoms and Effects

Not Available

Special treatment needed:

No additional first aid information available.
5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and minimize fire damage.

Unsuitable Extinguishing Media
No data available

Fire and/or Explosion Hazards
Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back. Container may explode in heat of fire.

Hazardous Combustion Products
Carbon dioxide, Carbon monoxide, Toxic fumes, Toxic gases

Special Protective Equipment and Precautions for Fire-Fighters
Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods and Material for Containment and Cleaning Up
Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Dike with suitable absorbent material. Gather and store in a sealed container pending disposal. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment.

Conditions for Safe Storage
Store in a cool dry place. Keep container(s) closed. Keep away from sources of ignition.

Materials to Avoid/Chemical Incompatibility
Oxidizing agents, Acids, Caustics (bases, alkalis)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV-TWA</th>
<th>ACGIH STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>1000 ppm TWA; 2400 mg/m³ TWA</td>
<td>500 ppm TWA; 1188 mg/m³ TWA</td>
<td>750 ppm STEL; 1782 mg/m³ STEL</td>
</tr>
<tr>
<td>tert-butyl acetate</td>
<td>200ppm; 950mg/m³ TWA</td>
<td>200ppm TWA</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td>1000 ppm TWA; 1800 mg/m³ TWA</td>
<td>simple asphyxiating; 2500 ppm TWA</td>
<td></td>
</tr>
<tr>
<td>Butoxy Ethanol</td>
<td>50 ppm TWA; 240 mg/m³ TWA</td>
<td>20 ppm TWA; 97 mg/m³ TWA</td>
<td></td>
</tr>
</tbody>
</table>
### 5. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**

- **Physical State**: Spray Aerosol
- **Color**: Red
- **Odor**: Sweet
- **Odor Threshold**: No data available
- **pH**: No data available
- **Melting Point/Freezing Point (°F/°C)**: No data available / No data available
- **Initial Boiling Point and Boiling Range**
  - **Low (°F)**: 208.4
  - **High (°F)**: 208.4
- **Flash Point (°F/°C)**: -155 / -104
- **Evaporation Rate**: 7.70
- **Flammability (solid, gas)**: No data available
- **Upper Flammable/Explosive Limit**: 6.9
- **Lower Flammable/Explosive Limit**: 1.3
- **Vapor Pressure**: ~ 41.50 (mm Hg @ 77°F / 25°C)
- **Vapor Density**: 4.00 (air = 1)
- **Solubility in Water**: Complete; 100%
- **Partition coefficient: n-octanol/water**: No data available
- **Auto-ignition Temperature**: No data available
- **Decomposition Temperature**: No data available
- **Volatile Organic Chemicals (g/L)**: No data available

### 10. STABILITY AND REACTIVITY

**Chemical stability**: Stable under normal conditions.
Safety Data Sheet

Possibility of Hazardous Reactions
No data available

Conditions to Avoid
Sparks, open flame, other ignition sources, and elevated temperatures. Elevated temperatures. Contamination.

Incompatible Materials
Oxidizing agents, Acids, Caustics (bases, alkalis)

Hazardous Decomposition Products
Carbon dioxide, Carbon monoxide, Toxic fumes, Toxic gases

11. TOXICOLOGICAL INFORMATION

Routes of Exposure
Inhalation
Skin contact
Eye contact
Skin absorption
Ingestion

Immediate (Acute) Health Effects by Route of Exposure

Inhalation
Irritation
Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. Causes nose and throat irritation. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

Inhalation Toxicity
Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. This product contains an asphyxiant gas that can cause unconsciousness or death if Oxygen levels are sufficiently reduced.

Skin Contact
Causes skin irritation.

Skin Absorption
May be harmful if absorbed through skin.

Eye Contact
Causes eye irritation.

Ingestion Toxicity
Harmful if swallowed.

Long-Term (Chronic) Health Effects

Carcinogenicity
Contains Titanium Dioxide which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence with respect to humans and sufficient evidence in experimental animals.

Reproductive and Developmental Toxicity
Contains butoxy ethanol which has been shown to cause harm to the fetus in laboratory animal studies. The relevance of these findings to humans is uncertain.

Inhalation
Upon prolonged and/or repeated exposure, can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Skin Contact
Continued or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

Skin Absorption
Upon prolonged or repeated exposure, harmful if absorbed through the skin.

Ingestion
Prolonged or repeated overexposure may cause central nervous system, kidney and liver damage.

Product Toxicology Data

Oral Acute Toxicity Estimate (ATE) 9,720.75 mg/kg

Component Toxicology Data

<table>
<thead>
<tr>
<th>Chemical Component</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>Oral LD50 Rat 5800 mg/kg</td>
<td>Dermal LD50 Rabbit &gt; 16 g/kg</td>
<td>Inhalation LC50 (4h) Rat 76.00 mg/L</td>
</tr>
<tr>
<td>tert-butyl acetate</td>
<td>Oral LD50 Rat 4100 mg/kg</td>
<td>Dermal LD50 Rabbit &gt; 2000 mg/kg</td>
<td>Inhalation LC50 (6h) Rat &gt; 4,000.00 ppm</td>
</tr>
<tr>
<td>Parachlorobenzotrifluoride (PCBTF)</td>
<td>Oral LD50 Rat 11,500 mg/kg</td>
<td></td>
<td>Inhalation LC50 Rat &gt; 20.00 mg/L</td>
</tr>
</tbody>
</table>
### Safety Data Sheet

**Revision Date:** 03-10-2016  
**Product Code:** 2303

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50 Rat</th>
<th>Dermal LD50 Rabbit</th>
<th>Inhalation LC50 (6h) Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol mono-n-butyl ether</td>
<td>1300 mg/kg</td>
<td>2000 mg/kg</td>
<td>500.00 ppm</td>
</tr>
<tr>
<td>Light aromatic solvent naphtha</td>
<td>8400 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
<td>&gt; 500.00 ppm</td>
</tr>
<tr>
<td>Ferric oxide</td>
<td>5000 mg/kg</td>
<td>&gt; 5000 mg/kg</td>
<td>&gt; 500.00 ppm</td>
</tr>
<tr>
<td>Methoxypropanol acetate</td>
<td>8532 mg/kg</td>
<td>&gt; 3440 mg/kg</td>
<td>&gt; 20.00 mg/L</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>6000 mg/kg</td>
<td>&gt; 10,000 mg/kg</td>
<td>&gt; 10.20 mg/L</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>25,000 mg/kg</td>
<td>&gt; 10,000 mg/kg</td>
<td>&gt; 6.82 mg/L</td>
</tr>
</tbody>
</table>

#### Carcinogen Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen</th>
<th>NTP Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>2B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available)

<table>
<thead>
<tr>
<th>Mobility in soil</th>
<th>No data available</th>
</tr>
</thead>
</table>

13. DISPOSAL CONSIDERATIONS

**Safe Handling of Waste**

Do not puncture or incinerate (burn) container. Exposure to heat or prolonged exposure to sun may cause bursting. Do not expose to heat or store at temperatures above 120°F. Refer to other sections of this SDS to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information and does not contain all regulatory transportation details. Refer to all applicable regulations for domestic, international, air, vessel and ground transportation requirements and restrictions.

**DOT Basic Description:** Aerosol, Flammable  
**Hazard Class:** 2.1  
**UN Number:** UN1950  
**Other:** Consumer Commodity - ORM-D for ground shipments per 49CFR173.306.

**Marine Pollutant:** No

15. REGULATORY INFORMATION

**TSCA Status**

All components of this product are either listed on the TSCA Inventory; or, are not subject to the inventory notification requirements.

**Regulated Components**

<table>
<thead>
<tr>
<th>SARA EHS Chemicals</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>15 - 40</td>
</tr>
</tbody>
</table>
## Safety Data Sheet

**Revision Date:** 03-10-2016  
**Product Code:** 2303

tert-Butyl acetate 540-88-5 10 - 30

### SARA 313
- Ethylene glycol mono-n-butyl ether 111-76-2 1 - 5
- 1,2,4-Trimethylbenzene 95-63-6 0.5 - 1.5

### SARA 311/312
- Health (Acute): Y
- Health (chronic): Y
- Fire (Flammable): Y
- Pressure: Y
- Reactivity: N

### U. S. State Regulations:
**California Prop 65 Chemicals**

<table>
<thead>
<tr>
<th>Cancer</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone</td>
<td>108-10-1</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Ethyl Benzene</td>
<td>100-41-4</td>
<td>0.01 - 0.1</td>
</tr>
<tr>
<td>Cumene</td>
<td>98-82-8</td>
<td>0.01 - 0.1</td>
</tr>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>0.001 - 0.01</td>
</tr>
</tbody>
</table>

### Reproductive
- Methyl Isobutyl Ketone 108-10-1 0.1 - 1
- Hexanoic acid, 2-ethyl- 149-57-5 0.01 - 0.1
- Benzene 71-43-2 0.001 - 0.01
- Toluene 108-88-3 0.001 - 0.01

### Canadian Regulations:
**CEPA DSL:** The components of this product ARE listed on the Canadian Domestic Substances List.
**WHMIS Hazard Class:** B2 D2A

### 16. OTHER INFORMATION

**Revision Date** 03-10-2016  
**Disclaimer**  
This SDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada's Controlled Product Regulations (CPR). To the best of our knowledge the information contained herein is accurate. Determination of safe handling, application and use of this material is the responsibility of the end user. This information is furnished without warranty, expressed or implied.