Safety Data Sheet

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

1. IDENTIFICATION

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

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

as required.

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 no expose to temperatures exceeding 50℃/ 122℉.
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

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

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

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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

Chemical Component	OSHA PEL	ACGIH TLV-TWA	ACGIH STEL
Acetone	1000 ppm TWA; 2400 mg/m³ TWA	500 ppm TWA; 1188 mg/m³ TWA	750 ppm STEL; 1782 mg/m³ STEL
tert-butyl acetate	200ppm; 950mg/m³ TWA	200ppm TWA	
Propane	1000 ppm TWA; 1800 mg/m3 TWA	simple asphyxiant; 2500 ppm TWA	
Butoxy Ethanol	50 ppm TWA; 240 mg/m³ TWA	20 ppm TWA; 97 mg/m³ TWA	

Butane		800 ppm TWA; 1900 mg/m3 TWA	
Ferric oxide (Nuisance Dust)	10 mg/m3 TWA	as Fe: 5 mg/m3 TWA (welding fumes, dust, total particulate (N.O.C.))	
1,2,4-Trimethylbenzene		25ppm; 123mg/m³ TWA	
Titanium dioxide	15 mg/m³ TWA (total dust)	10 mg/m³ TWA	

Appropriate Engineering Controls	Local exhaust ventilation or other engineering controls may be required when handling or using this product to avoid overexposure. Explosion proof exhaust ventilation should be used. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910.
Respiratory Protection	General or local exhaust ventilation is the preferred means of protection. In cases where ventilation is inadequate, respiratory protection may be required to avoid overexposure. Follow respirator manufacturer's directions for respirator use.
Eye Protection	Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.
Skin Protection	Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Clothing suitable to prevent skin contact.
Other Protective Equipment	Nitrile Neoprene
General Hygiene Conditions	Use spark-proof tools and explosion-proof equipment.

9. 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 (℉/℃)	No data available / No data available
Initial Boiling Point and Boiling Range	
Low (℉)	208.4
High (℉)	208.4
Flash Point (℉/℃)	-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 / 25º 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.

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

Chemical Component	Oral LD50	Dermal LD50	Inhalation LC50
Acetone	Oral LD50 Rat 5800 mg/kg	Dermal LD50 Rabbit > 16 g/kg	Inhalation LC50 (4h) Rat 76.00 mg/L
tert-butyl acetate	Oral LD50 Rat 4100 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (6h) Rat > 4,000.00 ppm
Parachlorobenzotrifluoride (PCBTF)	Oral LD50 Rat 11,500 mg/kg		Inhalation LC50 Rat > 20.00 mg/L

Ethylene glycol mono-n-butyl ether	Oral LD50 Rat 1300 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (6h) Rat > 500.00 ppm
Light aromatic solvent naphtha	Oral LD50 Rat 8400 mg/kg	Dermal LD50 Rat > 2000 mg/kg	Inhalation LC50 (4h) Rat 5.60 mg/L
Ferric oxide	Oral LD50 Rat > 5000 mg/kg	Dermal LD50 Rabbit > 5000 mg/kg	Inhalation LC50 (4h) Rat > 20.00 mg/L
Methoxypropanol acetate	Oral LD50 Rat 8532 mg/kg	Dermal LD50 Rabbit > 5000 mg/kg	Inhalation LC50 (4h) Rat > 20.00 mg/L
1,2,4-Trimethylbenzene	Oral LD50 Rat 6000 mg/kg	Dermal LD50 Rat > 3440 mg/kg	Inhalation LC50 (4h) Rat 10.20 mg/L
Titanium dioxide	Oral LD50 Rat > 25,000 mg/kg	Dermal LD50 Rabbit > 10,000 mg/kg	Inhalation LC50 (4h) Rat > 6.82 mg/L

Carcinogen Information

Chemical Name	IARC Carcinogen	OSHA Carcinogen	NTP Carcinogen
Titanium dioxide	2B		

12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available) No data available

Mobility in soil No data available

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℉. Refer to other s ections 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

SARA EHS Chemicals	CAS #	%
Not applicable		

CERCLA

Acetone	67-64-1	15 - 40

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

Cancer	**CAS #**	**%**
Titanium dioxide	13463-67-7	0.1 - 1
Methyl Isobutyl Ketone	108-10-1	0.1 - 1
Ethyl Benzene	100-41-4	0.01 - 0.1
Cumene	98-82-8	0.01 - 0.1
Benzene	71-43-2	0.001- 0.01
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.