

Safety Data Sheet

Revision Date: 02-19-2016
Product Code: 4310-006

1. IDENTIFICATION

| | |
|---|---|
| Product Name | ACRYLITHANE HS2 TRAFFIC RED |
| Product Code | 4310-006 |
| Document ID | G4310-006 |
| Revision Number | 1 |
| Prior Version Date | None |
| Intended Use | Industrial Maintenance Coating |
| Restrictions On Use | For Industrial Use Only |
| Chemical Family | Acrylic Urethane Enamel |
| 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
Carcinogenicity Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2
Flammable Liquid Category 3

Signal Word

Warning

Hazard Statements

Flammable liquid and vapour. May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to organs.

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. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust, fume, mist, vapours or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. 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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or concerned: Get medical attention.

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IF exposed or if you feel unwell: Call a POISON CENTER or physician. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. In case of fire: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray for extinction.

Storage

Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

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

| <u>Chemical Component</u> | <u>CAS #</u> | <u>%</u> |
|---|--------------|----------|
| Methyl Amyl Ketone | 110-43-0 | 3 - 7 |
| n-Butyl acetate | 123-86-4 | 1 - 5 |
| Ethylene glycol monobutyl ether acetate | 112-07-2 | 1 - 5 |
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 41556-26-7 | 0.1 - 1 |
| Ethylbenzene | 100-41-4 | 0.1 - 1 |
| Titanium dioxide | 13463-67-7 | 0.1 - 1 |
| methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 82919-37-7 | 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 individual to fresh air after an airborne exposure if any symptoms develop as a precautionary measure. |
| Eye Contact | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately. |
| 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. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal. |

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.

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**Unsuitable Extinguishing Media
Fire and/or Explosion Hazards**

No data available

Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). 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
Special Protective Equipment and
Precautions for Fire-Fighters**

Carbon dioxide, Carbon monoxide, Toxic fumes, Toxic gases
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. 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.

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. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. Ground and bond containers when transferring material. Use spark-proof tools and explosion-proof equipment. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse. Store in a cool dry place. Keep container(s) closed. Keep away from sources of ignition.

Conditions for Safe Storage

**Materials to Avoid/Chemical
Incompatibility**

Oxidizing agents, Caustics (bases, alkalis), Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

| <u>Chemical Component</u> | <u>OSHA PEL</u> | <u>ACGIH TLV-TWA</u> | <u>ACGIH STEL</u> |
|--|---|---|---|
| Methyl Amyl Ketone | 100ppm; 465mg/m ³ (TWA) | 50ppm; 233mg/m ³ TWA | |
| n-Butyl acetate | 150 ppm TWA; 710 mg/m ³ TWA | 150 ppm TWA; 713 mg/m ³ TWA | 200 ppm STEL; 950 mg/m ³ STEL |
| Ethylene glycol monobutyl ether acetate | | 20ppm TWA | |
| Ethylbenzene | 100 ppm TWA; 435 mg/m ³ TWA | 100 ppm TWA; 434 mg/m ³ TWA | 125 ppm STEL; 543 mg/m ³ STEL |

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|------------------|---------------------------------------|--------------------------|--|
| Titanium dioxide | 15 mg/m ³ TWA (total dust) | 10 mg/m ³ TWA | |
|------------------|---------------------------------------|--------------------------|--|

| | |
|---|--|
| Appropriate Engineering Controls | Use local exhaust ventilation or other engineering controls to minimize exposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Explosion proof exhaust ventilation should be used. |
| 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. |
| General Hygiene Conditions | As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. Ground and bond containers when transferring material. Use spark-proof tools and explosion-proof equipment. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse. |

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

| | |
|---|---------------------------------------|
| Physical State | Liquid |
| Color | Red |
| Odor | No data available |
| 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) | 300.0 |
| High (F) | 337.5 |
| Flash Point (F/C) | 102 / 39 |
| Evaporation Rate | 0.40 (n-Butyl Acetate = 1.0) |
| Flammability (solid, gas) | No data available |
| Upper Flammable/Explosive Limit | 7.9 % |
| Lower Flammable/Explosive Limit | 1.1 % |
| Vapor Pressure | 2.10 (air = 1) |
| Vapor Density | 3.90 (air = 1) |
| Relative Density | 1.420 |
| Solubility in Water | Negligible; 0-1% |
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition Temperature | No data available |
| Decomposition Temperature: | No data available |
| Viscosity | 35 - 45 Z3 |
| Volatiles, % by volume | 43.81 |
| Volatiles, % by weight | 27.49 |
| Volatile Organic Chemicals (g/L) | |
| (Regulatory, Calculated) | 390.51 |
| (Actual, Calculated) | 390.51 |
| Density | 11.65 - 12.05 lbs./Gal |

10. STABILITY AND REACTIVITY

| | |
|---|---------------------------------|
| Chemical stability | Stable under normal conditions. |
| Possibility of Hazardous Reactions | No data available |

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Conditions to Avoid

Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Contamination.

Incompatible Materials

Oxidizing agents, Caustics (bases, alkalis), Acids

Hazardous Decomposition Products

Carbon dioxide, Carbon monoxide, Toxic fumes, Toxic gases

11. TOXICOLOGICAL INFORMATION

Routes of Exposure

Inhalation
Ingestion
Skin contact
Eye contact

Immediate (Acute) Health Effects by Route of Exposure

Inhalation 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.

Skin Contact

Can cause moderate skin irritation.

Skin Absorption

May be harmful if absorbed through skin.

Eye Contact

Causes eye irritation.

Ingestion Toxicity

Harmful if swallowed. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

Long-Term (Chronic) Health Effects

Carcinogenicity

Possible cancer hazard. Contains ethylbenzene which may cause cancer based on animal data. (Risk of cancer depends on duration and level of exposure.)

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.

Inhalation

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.

Product Toxicology Data

Oral Acute Toxicity Estimate (ATE) 5,640.79 mg/kg

Inhalation Dust/Mist Acute Toxicity Estimate (ATE) 53.80 mg/L

Inhalation Vapor Acute Toxicity Estimate (ATE) 67.49 mg/L

Dermal Acute Toxicity Estimate (ATE) 39,454.06 mg/kg

Component Toxicology Data

| Chemical Component | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|--|--|---|
| Ethyl 3-ethoxypropionate | Oral LD50 Male Rat > 5000 mg/kg Oral LD50 Female Rat ~ 4309 mg/kg | Dermal LD50 Rabbit ~ 4080 - 4680 mg/kg | Inhalation LC50 (6h) Male Rat > 998.00 mg/L |
| Methyl Amyl Ketone | Oral LD50 Rat 1600 mg/kg | Dermal LD50 Rabbit 10,206 mg/kg | Inhalation LC50 (4h) Rat > 16.70 mg/L |
| n-Butyl acetate | Oral LD50 Rat 10,760 mg/kg | Dermal LD50 Rat 12,789 mg/kg | Inhalation LC50 (4h) Rat > 21.00 mg/L |
| Ethylene glycol monobutyl ether acetate | Oral LD50 Rat 1880 mg/kg | Dermal LD50 Rabbit 1500 mg/kg | Inhalation LC50 (6h) Rat > 4.59 mg/L |
| Ethylbenzene | Oral LD50 Rat 3500 mg/kg | Dermal LD50 Rabbit 5510 mg/kg | Inhalation LC50 (4h) Rat 17.00 mg/L |

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| 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 |
|------------------|-----------------|-----------------|----------------|
| Ethylbenzene | 2B | | |
| 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 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: | Paint |
| Hazard Class: | 3 |
| UN Number: | UN1263 |
| Packing Group: | III |
| Other: | Not regulated for non-bulk domestic ground shipments for packaging of 450 liters (119 gallons) or less (DOT 49CFR 173.150(f)). |

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

| <u>SARA EHS Chemicals</u> | <u>CAS #</u> | <u>%</u> |
|---|--------------|----------|
| Not applicable | | |
| <u>CERCLA</u> | | |
| n-Butyl Acetate | 123-86-4 | 1 - 5 |
| Ethyl Benzene | 100-41-4 | 0.1 - 1 |
| <u>SARA 313</u> | | |
| Ethylene glycol monobutyl ether acetate | 112-07-2 | 1 - 5 |
| Ethylbenzene | 100-41-4 | 0.1 - 1 |

SARA 311/312

| | |
|-------------------|---|
| Health (Acute): | Y |
| Health (chronic): | Y |
| Fire (Flammable): | Y |

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Pressure: N
Reactivity: N

U. S. State Regulations:

California Prop 65 Chemicals

| Cancer | CAS # | % |
|---------------------|--------------|-------------|
| Ethyl Benzene | 100-41-4 | 0.1 - 1 |
| Titanium dioxide | 13463-67-7 | 0.1 - 1 |
| Cumene | 98-82-8 | 0.01 - 0.1 |
| Benzene | 71-43-2 | 0.001- 0.01 |
| Reproductive | | |
| Methyl Alcohol | 67-56-1 | 0.01 - 0.1 |
| Toluene | 108-88-3 | 0.001- 0.01 |
| Benzene | 71-43-2 | 0.001- 0.01 |

Canadian Regulations:

CEPA DSL: The components of this product ARE listed on the Canadian Domestic Substances List.
WHMIS Hazard Class: B3 D2A

16. OTHER INFORMATION

| | |
|----------------------|---|
| Revision Date | 02-19-2016 |
| 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. |