

# Safety Data Sheet

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Name: Ivory Air Dry Phenolic Coating Product Code: VR-508F

**MANUFACTURER : Heresite Protective Coatings, LLC**  
822 S. 14th Street  
Manitowoc, WI 54220

**TELEPHONE NUMBER: 1 (920) 684-6646**

**FAX NUMBER: 1 (920) 684-0110**

**EMERGENCY PHONE: CHEMTREC**  
**1 (800) 424-9300**

**E-MAIL ADDRESS OF PERSON RESPONSIBLE:**  
**peter@heresite.com**

Product Use: Industrial and Commercial Coatings, primary application to metal.

Not recommended for: Any other application

## SECTION 2: HAZARDS IDENTIFICATION

### GHS Ratings:

|                    |    |  |
|--------------------|----|--|
| Flammable liquid   | 2  | Flash point < 23°C and initial boiling point > 35°C (95°F)   |
| Skin corrosive     | 2  | Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation   |
| Eye corrosive      | 2B | Mild eye irritant: Subcategory 2B, Reversible in 7 days  |
| Skin sensitizer    | 1  | Skin sensitizer  |
| Mutagen            | 1B | Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity |
| Carcinogen         | 1A | Known Human Carcinogen Based on human evidence   |
| Reproductive toxin | 2  | Human or animal evidence possibly with other information   |
| Aspiration hazard  | 1  | Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity ? 20.5 mm <sup>2</sup> /s at 40° C.   |

**Signal Word: Danger**



### GHS Hazards

|      |   |
|------|---|
| H225 | Highly flammable liquid and vapour                  |
| H304 | May be fatal if swallowed and enters airways        |
| H315 | Causes skin irritation                              |
| H317 | May cause an allergic skin reaction                 |
| H340 | May cause genetic defects                           |
| H350 | May cause cancer                                    |
| H361 | Suspected of damaging fertility or the unborn child |

### GHS Precautions

|      |  |
|------|--|
| P201 | Obtain special instructions before use |
|------|--|

|                |  |
|----------------|--|
| P202           | Do not handle until all safety precautions have been read and understood   |
| P210           | Keep away from heat/sparks/open flames/hot surfaces No smoking   |
| P233           | Keep container tightly closed  |
| P240           | Ground/bond container and receiving equipment  |
| P241           | Use explosion-proof electrical/ventilating/light/equipment   |
| P242           | Use only non-sparking tools  |
| P243           | Take precautionary measures against static discharge   |
| P261           | Avoid breathing dust/fume/gas/mist/vapours/spray   |
| P264           | Wash hands thoroughly after handling   |
| P272           | Contaminated work clothing should not be allowed out of the workplace  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection  |
| P281           | Use personal protective equipment as required  |
| P321           | Specific treatment (see SDS)   |
| P331           | Do NOT induce vomiting   |
| P362           | Take off contaminated clothing and wash before reuse   |
| P363           | Wash contaminated clothing before reuse  |
| P301+P310      | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician   |
| P302+P352      | IF ON SKIN: Wash with plenty of soap and water.  |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.                      |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313      | If exposed or concerned: Get medical advice/attention  |
| P332+P313      | If skin irritation occurs: Get medical advice / attention  |
| P333+P313      | If skin irritation or a rash occurs: Get medical advice/attention  |
| P337+P313      | If eye irritation persists: Get medical advice/attention   |
| P370+P378      | In case of fire: Use CO <sub>2</sub> , dry chemical, or foam for extinction.   |
| P405           | Store locked up  |
| P403+P235      | Store in a well-ventilated place. Keep cool  |
| P501           | Dispose of contents/container to in accordance with local/regional/national/international regulations.                           |

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                             | CAS number | Weight Concentration % |
|---|------------|------------------------|
| Titanium Dioxide                          | 13463-67-7 | 20.00% - 30.00%        |
| VM&P                                      | 64742-89-8 | 10.00% - 20.00%        |
| Hydrotreated Light Distillate (petroleum) | 64742-47-8 | 10.00% - 20.00%        |
| Calcium Silicate                          | 13983-17-0 | 5.00% - 10.00%         |
| Mineral Spirits                           | 8052-41-3  | 5.00% - 10.00%         |
| Butylated Hydroxytoluene                  | 128-37-0   | 1.00% - 5.00%          |
| Crystalline Silica                        | 14808-60-7 | 0.10% - 1.00%          |

### SECTION 4 - FIRST AID MEASURES

#### General Advice

If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

#### Inhalation

Remove to fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen if a

qualified operator is available. Get medical attention.

#### **Eye Contact**

Immediately flush eyes with large amounts of water for at least 20 minutes, while holding eyelids open. Obtain medical attention immediately, as a precaution.

#### **Skin Contact**

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

#### **Ingestion**

If person is conscious, give them several glasses of water to drink. Do NOT induce vomiting unless directed to do so by medical personnel. Obtain immediate medical attention.

#### **Most important symptoms and effects, both acute and delayed**

No information available

#### **Indication of any immediate medical attention and special treatment needed**

Consult a physician

## **SECTION 5: FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

##### **Suitable extinguishing media**

Carbon Dioxide, Dry Chemical, Foam

##### **Unsuitable extinguishing media**

None identified

#### **Special hazards arising from the substance or mixture**

None identified

#### **Advice for firefighters**

No data available

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### **Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

Keep people at a distance and stay on the windward side.

Ensure adequate ventilation.

Keep away from ignition sources.

#### **Environmental precautions:**

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

Prevent from spreading (e.g. by damming-in or oil barriers).

Keep dirty washing solution for appropriate disposal.

#### **Methods and material for containment and cleaning up:**

Ensure adequate ventilation and proper training.

Absorb with liquid-binding non combustible material (e.g. sand).

Clean the accident area carefully.

Send for recovery or disposal in suitable containers.

#### **Reference to other sections:**

**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling:**

See Section 2

**Conditions for safe storage:**

Store in a well-ventilated place.

Keep cool.

Store with only compatible materials.

**Specific end uses(s):**

See Section 1

**SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

| Chemical Name / CAS No.                                 | OSHA Exposure Limits                                       | ACGIH Exposure Limits                      | Other Exposure Limits                               |
|---|--|--|---|
| Titanium Dioxide<br>13463-67-7                          | 15 mg/m3 TWA (total dust)                                  | 10 mg/m3 TWA                               | Not Established                                     |
| VM&P<br>64742-89-8                                      | Z-1A TWA 300ppm /1350 mg/m3                                | Not Established                            | Not Established                                     |
| Hydrotreated Light Distillate (petroleum)<br>64742-47-8 | Not Established  | TWA 200 mg/m3 (TLV)                        | Not Established                                     |
| Calcium Silicate<br>13983-17-0                          | PEL (TWA) 15mg/m3 total dust<br>TWA 5mg/m3 respirable dust | Not Established                            | Not Established                                     |
| Mineral Spirits<br>8052-41-3                            | 500 ppm TWA; 2900 mg/m3 TWA                                | 100 ppm TWA                                | NIOSH: 350 mg/m3 TWA<br>1800 mg/m3 Ceiling (15 min) |
| Butylated Hydroxytoluene<br>128-37-0                    | Z-1 TWA 10 mg/m3   | 2 mg/m3 TWA (inhalable fraction and vapor) | NIOSH: 10 mg/m3 TWA                                 |
| Crystalline Silica<br>14808-60-7                        | TWA 10 mg/m3<br>PEL TWA 8hr                                | 0.025 mg/m3 TWA (respirable fraction)      | NIOSH: 0.05 mg/m3 TWA (respirable dust)             |

**Additional information about design of technical systems:**

Engineering controls should be used as a primary means to control exposures.

Make available emergency shower and eye wash at the workplace according to appropriate standards.

A workplace risk assessment must be carried out in order to determine the corrective engineering control and organizational measures and personal protective equipment.

No further data; see Section 7.

**Exposure controls**

**Appropriate engineering controls:**

No data available

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Take off immediately all contaminated clothing.

Laundry work clothing regularly.  
 Wash hands before breaks and at the end of the work .  
 Avoid contact with the eyes and skin.  
 Do not inhale gases / fumes / aerosols.  
 Do not eat, drink or smoke while working to limit potential ingestion of chemicals.

**Personal Protective Equipment**

**Eye and Face Protection:**

Wear eye protection/face protection .

**Skin Protection:**

Wear protective gloves/protective clothing .

**Hand Protection:**

The glove material has to be impermeable and resistant to the product.  
 Due to missing tests no recommendation to the glove material can be given for the product.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation .

**Respiratory Protection:**

Engineering controls should be used as primary means to control exposures. Local exhaust ventilation is required unless used in a closed system. For laboratory use, handle in a lab fume hood.  
 If the applicable Occupational Exposure Level (OEL) is exceeded, wear a NIOSH certified respiratory protection equipment meeting US requirements (1910.134 Occupational Safety and Health Administration, Personal Protective Equipment, Respiratory Protection) with a protection factor sufficient to control exposures to below the OEL .

**Environmental Exposure Controls:**

See Section 6.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

|   |  |
|---|--|
| <p><b>Appearance:</b> No Data Found</p> <p><b>Vapor Pressure:</b> 1.3 kPa</p> <p><b>Vapor Density:</b> 5.2</p> <p><b>Specific Gravity:</b> 1.17</p> <p><b>Freezing point:</b> No Data Found</p> <p><b>Boiling range:</b> No Data Found</p> <p><b>Evaporation rate:</b> No Data Found</p> <p><b>Explosive Limits:</b> No Data Found</p> <p><b>Autoignition temperature:</b> No Data Found</p> <p><b>Viscosity:</b> No Data Found</p> | <p><b>Odor:</b> No Data Found</p> <p><b>Odor threshold:</b> No Data Found</p> <p><b>pH:</b> No Data Found</p> <p><b>Melting point:</b> No Data Found</p> <p><b>Solubility:</b> No Data Found</p> <p><b>Flash point:</b> 14 F,-10 C</p> <p><b>Flammability:</b> No Data Found</p> <p><b>Partition coefficient (n-octanol/water):</b> No Data Found</p> <p><b>Decomposition temperature:</b> No Data Found</p> <p><b>Grams VOC less water:</b> No Data Found</p> |
|---|--|

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:**

No known hazards with respect to reactivity when handled and stored according to provisions.

**Chemical Stability:**

Stable under recommended storage and handling conditions.

**Thermal decomposition / conditions to avoid:**

Avoid exposure to heat, sources of ignition, and open flame . No decomposition if used according to specifications.

**Possibility of hazardous reactions:**

No data available.

**Conditions to avoid:**

High Temperatures.  
Heat, flames and sparks.  
See section 2.

**Incompatible materials:**

No further information available.

**Hazardous decomposition products:**

In case of fire: Carbon Dioxide, Carbon Monoxide, Hydrocarbons

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Mixture Toxicity**

Inhalation Toxicity LC50: 28mg/L

**Component Toxicity**

|            |   |
|------------|---|
| 64742-89-8 | VM&P<br>Oral LD50: 5,000 mg/kg (Mouse) Dermal LD50: 3,000 mg/kg (Rabbit) Inhalation LC50: 5,000 ppm |
| 8052-41-3  | Mineral Spirits<br>Oral LD50: 5 g/kg (Rat) Dermal LD50: 5 g/kg (Rat)                                |

**No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.**

**Routes of Entry:**

Inhalation      Ingestion

**Exposure to this material may affect the following organs:**

Eyes      Kidneys      Lungs      Central Nervous System      Skin      Respiratory System

**Effects of Overexposure**

|  |   |
|--|---|
| Repeated exposure may cause skin dryness or cracking             | Repeated exposure may cause dryness of skin. Repeated exposure may cause dryness of skin. |
| May be harmful if swallowed                                      |   |
| May cause eye irritation.  |   |
| May be harmful if absorbed through skin. Causes skin irritation. |   |

| <u>CAS Number</u> | <u>Description</u> | <u>% Weight</u> | <u>Carcinogen Rating</u>                  |
|-------------------|--------------------|-----------------|---|
| 8052-41-3         | Mineral Spirits    | 5 to 10%        | Mineral Spirits: EU<br>REACH: Present (P) |

|            |                    |            |  |
|------------|--------------------|------------|--|
| 13463-67-7 | Titanium Dioxide   | 20 to 30%  | Titanium Dioxide:<br>NIOSH: potential occupational carcinogen<br>IARC: Possible human carcinogen<br>OSHA: listed |
| 14808-60-7 | Crystalline Silica | .1 to 1.0% | Crystalline Silica:<br>NIOSH: potential occupational carcinogen<br>IARC: Human carcinogen<br>OSHA: listed        |
| 64742-89-8 | VM&P               | 10 to 20%  | VM&P: EU REACH:<br>Present (P)   |

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity:**

No ecotoxicological data for the substance itself are available.

**Persistence and degradability:**

No further relevant information available.

**Bioaccumulative potential:**

No further relevant information available.

**Mobility in soil:**

No further relevant information available

**Results of PBT and VPvB assessment:**

No data available

**Other adverse effects:**

No further relevant information available.

**Component Ecotoxicity**

|   |  |
|---|--|
| VM&P                                      | 72 Hr EC50 Pseudokirchneriella subcapitata: 4700 mg/L  |
| Hydrotreated Light Distillate (petroleum) | 96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 2.2 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 2.4 mg/L [static] |
| Mineral Spirits                           | Not toxic at limit of solubility LC/EC/IC50 > 1000mg/L Freshwater Fish, Invertebrates and Algae  |
| Butylated Hydroxytoluene                  | 72 Hr EC50 Pseudokirchneriella subcapitata: 6 mg/L; 72 Hr EC50 Desmodesmus subspicatus: >0.42 mg/L   |

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods:**

Waste material must be disposed of I/A/W Federal, State & Local environmental control regulations. Incineration is a recommended technology. Empty containers must be handled with care due to product residue. Decontaminate containers prior to disposal. Do not heat/cut empty container with electric or gas torch.

## SECTION 14: TRANSPORT INFORMATION

### Environmental hazards:

No information available

### Special precautions for users:

No information available.

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not required, not intended to be carried in bulk tankers.

| <u>Agency</u> | <u>Proper Shipping Name</u> | <u>UN Number</u> | <u>Packing Group</u> | <u>Hazard Class</u> |
|---------------|-----------------------------|------------------|----------------------|---------------------|
| IATA          | Paint                       | 1263             | II                   | 3                   |
| IMDG          | Paint                       | 1263             | II                   | 3                   |
| USDOT         | Paint                       | 1263             | II                   | 3                   |

## SECTION 15: REGULATORY INFORMATION

### Classification:

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- 14808-60-7 Crystalline Silica 0.1 to 1.0 %
- 13463-67-7 Titanium Dioxide 20 to 30 %

### Clean Air Act

- None

### SARA Section 302

- None

### SARA 311/312

- 14808-60-7
- 128-37-0 Acute Health Hazard
- 64742-47-8 Fire Hazard, Acute Health Hazard
- 64742-89-8 Fire Hazard, Acute Health Hazard

### TSCA (Toxic Substance Control Act)

- 8052-41-3 Mineral Spirits 5 to 10 %
- 64742-47-8 Hydrotreated Light Distillate (petroleum) 10 to 20 %
- 64742-89-8 VM&P 10 to 20 %

### TSCA (Toxic Substance Control Act) 8b

- 14808-60-7 Crystalline Silica 0.1 to 1.0 %
- 128-37-0 Butylated Hydroxytoluene 1 to 5 %
- 8052-41-3 Mineral Spirits 5 to 10 %
- 64742-47-8 Hydrotreated Light Distillate (petroleum) 10 to 20 %
- 64742-89-8 VM&P 10 to 20 %
- 13463-67-7 Titanium Dioxide 20 to 30 %

### Country

### Regulation

### All Components Listed

|     |   |    |
|-----|---|----|
| USA | New Jersey Right to Know                              | No |
| USA | Pennsylvania Right to Know                            | No |
| USA | Massachusetts Right to Know                           | No |
| AU  | Australia inventory                                   | No |
| CA  | Canadian Domestic Substances List/Non-Domestic Substa | No |



|        |   |    |
|--------|---|----|
| EU     | European inventory                                      | No |
| JP     | Japan inventory   | No |
| CN     | China inventory   | No |
| Korea  | Korean Existing and Evaluated Chemical Substances       | No |
| NZ     | New Zealand inventory                                   | No |
| PH     | Philippine The Toxic Substances and Hazardous and Nucle | No |
| Canada |   | No |

**EU Risk Phrases**

**Safety Phrase**

**Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).** This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations part 372.

|            |                          |            |
|------------|--------------------------|------------|
| 128-37-0   | Butylated Hydroxytoluene | 1.0 - 5%   |
| 14808-60-7 | Crystalline Silica       | 0.1 - 1.0% |

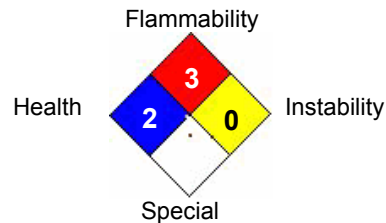
**SECTION 16: OTHER INFORMATION**

**Hazardous Material Information System (HMIS)**

|                     |   |
|---------------------|---|
| HEALTH              | 2 |
| FLAMMABILITY        | 3 |
| PHYSICAL HAZARD     | 0 |
| PERSONAL PROTECTION | G |

**HMIS & NFPA Hazard Rating Legend**  
 \* = Chronic Health Hazard  
 0 = INSIGNIFICANT  
 1 = SLIGHT  
 2 = MODERATE  
 3 = HIGH

**National Fire Protection Association (NFPA)**



**DISCLAIMER:** The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Date revised: 2016-10-06

Reviewer Revision 2

Date Prepared: 10/7/2016