Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 03/28/2023 Reviewed on 03/28/2023

1 Identification

· **Product Identifier**

· **Trade Name: Gray Air Dry Acrylic Coating**
· **Product Number:** HereShield / WB-506
· **Relevant identified uses of the substance or mixture and uses advised against:**
· **Product Description:** Industrial and Commercial Coatings, primary application to metal.
· **Uses advised against** Any other application

· **Details of the Supplier of the Safety Data Sheet:**
· **Manufacturer/Supplier:**
Heresite Protective Coatings, LLC
822 S. 14th Street
Manitowoc, WI 54220, USA
Phone: +1 (920) 684-6646
FAX: +1 (920) 684-0110
peter@heresite.com
· **Emergency telephone number:**
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 or Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 Hazard(s) Identification

· **Classification of the substance or mixture:**


Health hazard

Carcinogenicity 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.

Aquatic Acute 3 H402 Harmful to aquatic life.
· **Additional information:**
Carcinogenic hazard exempt when in bonded form or when it cannot be released and respired.

· **Label elements:**
· **Hazard pictograms:**

· **Signal word:** Warning

· **Hazard-determining components of labeling:**
Titanium Dioxide
Carbon black
· **Hazard statements:**
H351 Suspected of causing cancer. Route of exposure: Inhalation.
H402 Harmful to aquatic life.
· **Precautionary statements:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.

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P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***Unknown acute toxicity:***
This value refers to knowledge of known, established toxicological or ecotoxicological values.
0 % of the mixture consists of component(s) of unknown toxicity.

· ***Classification system:*** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· ***NFPA ratings (scale 0 - 4)***

Health = 0
Fire = 1
Reactivity = 0

· ***HMIS-ratings (scale 0 - 4)***

Health = *0
Fire = 1
Physical Hazard = 0

· ***Hazard(s) not otherwise classified (HNOC):*** None known

3 Composition/Information on Ingredients

· ***Chemical characterization: Substance***
· ***Description:*** Mixture of substances listed below with non-hazardous additions.

· ***Dangerous Components:***

CAS: 13463-67-7	Titanium Dioxide Carcinogenicity 2, H351	10-20%
CAS: 29911-28-2	Dipropylene glycol butyoxy ether Skin Irritation 2, H315; Eye Irritation 2B, H320	≤2.5%
CAS: 1333-86-4 RTECS: FF 5150100	Carbon black Carcinogenicity 1A, H350; Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	≤2.5%
CAS: 1336-21-6	Ammonium Hydroxide Acute Toxicity - Inhalation 3, H331; Skin Corrosion 1B, H314; Eye Damage 1, H318; Aquatic Acute 1, H400; Acute Toxicity - Oral 4, H302 Specific concentration limit: Specific Target Organ Toxicity - Single Exposure 3; H335: C ≥ 5 % vPvB	≤2.5%
	Trade Secret Oxidizing Solids 3, H272; Acute Toxicity - Oral 3, H301; Aquatic Acute 1, H400; Eye Irritation 2A, H319	≤2.5%
CAS: 112-34-5 RTECS: KJ 9100000	Diethylene Glycol Monobutyl Ether Eye Irritation 2A, H319; Flammable Liquids 4, H227	≤2.5%

· ***Additional information:***
The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

· ***Description of first aid measures***
· ***General information:*** If symptoms persist, call a physician.
· ***After inhalation:*** Supply fresh air; consult doctor in case of complaints.

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· ***After skin contact:***
Generally, the product does not irritate the skin.
If skin irritation occurs, consult a doctor.
· ***After eye contact:***
If eye irritation occurs, consult a doctor.
Rinse opened eye for several minutes under running water.
· ***After swallowing:*** If swallowed and symptoms occur, consult a doctor.
· ***Information for doctor***
· ***Most important symptoms and effects, both acute and delayed:*** No further relevant information available.
· ***Indication of any immediate medical attention and special treatment needed:*** Treat symptomatically.

5 Fire-Fighting Measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** Use fire fighting measures that suit the environment.
· ***For safety reasons unsuitable extinguishing agents:*** No further relevant information.
· ***Special hazards arising from the substance or mixture:*** No further relevant information available.
· ***Advice for firefighters***
· ***Special protective equipment for firefighters:***
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

· ***Personal precautions, protective equipment and emergency procedures:*** Not required.
· ***Environmental precautions:*** No special measures required.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
· ***Reference to other sections:***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

· ***PAC-1:***		
13463-67-7	Titanium Dioxide	30 mg/m³
1333-86-4	Carbon black	9 mg/m³
1336-21-6	Ammonium Hydroxide	61 ppm
112-34-5	Diethylene Glycol Monobutyl Ether	30 ppm
	Trade Secret	30 ppm

· ***PAC-2:***		
13463-67-7	Titanium Dioxide	330 mg/m³
1333-86-4	Carbon black	99 mg/m³
1336-21-6	Ammonium Hydroxide	330 ppm
112-34-5	Diethylene Glycol Monobutyl Ether	33 ppm
	Trade Secret	33 ppm

· ***PAC-3:***		
13463-67-7	Titanium Dioxide	2,000 mg/m³

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1333-86-4	Carbon black	590 mg/m³
1336-21-6	Ammonium Hydroxide	2,300 ppm
112-34-5	Diethylene Glycol Monobutyl Ether	200 ppm
	Trade Secret	200 ppm

7 Handling and Storage

· **Handling**
· **Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:** Keep protective respiratory device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters:**
· **Components with occupational exposure limits:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

1333-86-4 Carbon black	
PEL	Long-term value: 3.5 mg/m³
REL	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m³ *inhalable fraction, A3

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls:**
· **Personal protective equipment**
· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
· **Breathing equipment:** Not required.
· **Protection of hands:** Not required.
· **Material of gloves:** Not applicable.
· **Penetration time of glove material:** Not applicable.

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· **Eye protection:**

Tightly sealed goggles

· **Limitation and supervision of exposure into the environment:**
Keep away from drains, surface and ground waters.
Avoid release into the environment.

*

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**

Form:	Liquid
Color:	Gray
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	≥100 °C (≥212 °F)
· **Flash point:**	111.1 °C (232 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Auto igniting:**	Not applicable
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not self-igniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure @ 20 °C (68 °F):**	1.1 hPa (0.8 mm Hg)
· **Density @ 20 °C (68 °F):**	1.16 g/cm³ (9.6802 lbs/gal)
· **Relative density:**	Not determined.
· **Vapor density:**	Not determined.
· **Evaporation rate:**	Not determined.
· **Solubility in / Miscibility with:**	
Water:	Miscible
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.

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· **Solvent content:**
Organic solvents: 2.2 %
VOC content: 2.2 %
1.0 lb. / gal. (120 grams / liter) as supplied (less water and exempt solvents)

· **Other information:** No further relevant information available.

10 Stability and Reactivity

· **Reactivity:** No further relevant information available.
· **Chemical stability:** Product is stable under normal conditions.
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions:** No dangerous reactions known.
· **Conditions to avoid:** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

· **Information on toxicological effects:**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
13463-67-7 Titanium Dioxide		
Oral	LD50	>10,000 mg/kg (Rat)
Dermal	LD50	>10,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (Rat)
29911-28-2 Dipropylene glycol butyoxy ether		
Oral	LD50	>3,700 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
1333-86-4 Carbon black		
Oral	LD50	10,000 mg/kg (Rat)
1336-21-6 Ammonium Hydroxide		
Oral	LD50	350 mg/kg (RAT) Remarks: Gastrointestinal: Other changes. Liver: Other changes. Kidney, Ureter, Bladder: Other changes.
Inhalative	LC50/96 hours	8.2 mg/l (Pimephales)
Trade Secret		
Oral	LD50	175 mg/kg (Mouse) 157.9 mg/kg (Rat)
Inhalative	LC50/96 hours	0.94-1.92 mg/l (Trout)

· **Primary irritant effect:**
· **On the skin:** No irritating effect.
· **On the eye:** No irritating effect.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Carcinogenic

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· **Carcinogenic categories:**
· **IARC (International Agency for Research on Cancer):**
(a) Although IARC has classified titanium dioxide as possible carcinogenic to human (2B), their summary concludes: “No significant exposure to titanium dioxide is thought to occur during the use of products which titanium dioxide is bound to other materials, such as in cosmetics or in paints.”
(b) OSHA does not regulate Titanium Dioxide as a carcinogen. However, under 29 CFR 1910.1200 the SDS must convey the fact that Titanium Dioxide is a potential carcinogen to rats.
Substance listed by IARC. In 1995 IARC concluded, “There is inadequate evidence in humans for the carcinogenicity of carbon black.” Based on rat inhalation studies, IARC concluded that there is “sufficient evidence in experimental animals for the carcinogenicity of carbon black” resulting in their classifying carbon black as “possibly carcinogenic to humans (Group 2B).
Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

13463-67-7	Titanium Dioxide	2B
1333-86-4	Carbon black	2B

· **NTP (National Toxicology Program):**
None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**
None of the ingredients are listed.

12 Ecological Information

· **Toxicity:**
· **Aquatic toxicity:**
Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

13463-67-7 Titanium Dioxide	
EC50	>1,000 mg/l (Water flea)
29911-28-2 Dipropylene glycol butyoxy ether	
EC50	>1,000 mg/l (Daphnia)
1336-21-6 Ammonium Hydroxide	
EC50	0.66 mg/l (Daphnia) 0.66 mg/l (Water flea)
Trade Secret	
EC50	12.5 mg/l (Water flea)

· **Persistence and degradability:** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential:** No further relevant information available.
· **Mobility in soil:** No further relevant information available.
· **Additional ecological information:**
· **General notes:** Not known to be hazardous to water.
· **Results of PBT and vPvB assessment:**
· **PBT:** Not applicable.

· **vPvB:**

1336-21-6	Ammonium Hydroxide

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· **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household waste. Do not allow product to reach sewage system.
Observe all federal, state and local environmental regulations when disposing of this material.

· **Uncleaned packaging**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport Information

· **UN-Number:**
· **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
· **UN proper shipping name:**
· **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
· **Transport hazard class(es):**

· **DOT, ADR/ADN, ADN, IMDG, IATA**
· **Class:** Non-Regulated Material
· **Packing group:**
· **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
· **Environmental hazards:** Not applicable.
· **Special precautions for user:** Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
· **UN "Model Regulation":** Non-Regulated Material

15 Regulatory Information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
· **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

1336-21-6	Ammonium Hydroxide
112-34-5	Diethylene Glycol Monobutyl Ether
	Trade Secret

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients are listed.

· **California Proposition 65:**
(a) Although California Prop 65 and the IARC has classified titanium dioxide as possible carcinogenic to human (2B), their summary concludes: “No significant exposure to titanium dioxide is thought to occur during the use of products which titanium dioxide is bound to other materials, such as in cosmetics inks or in paints.”
(b) OSHA does not regulate Titanium Dioxide as a carcinogen. However, under 29 CFR 1910.1200 the SDS must convey the fact that Titanium Dioxide is a potential carcinogen to rats.

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· **Chemicals known to cause cancer:**	
13463-67-7	Titanium Dioxide
1333-86-4	Carbon black

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients are listed.

· **New Jersey Right-to-Know List:**	
13463-67-7	Titanium Dioxide
1333-86-4	Carbon black
1336-21-6	Ammonium Hydroxide
	Trade Secret

· **New Jersey Special Hazardous Substance List:**		
1333-86-4	Carbon black	CA
1336-21-6	Ammonium Hydroxide	CO

· **Pennsylvania Right-to-Know List:**	
13463-67-7	Titanium Dioxide
1336-21-6	Ammonium Hydroxide
	Trade Secret

· **Pennsylvania Special Hazardous Substance List:**		
1336-21-6	Ammonium Hydroxide	E
	Trade Secret	E

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**
None of the ingredients are listed.

· **TLV (Threshold Limit Value established by ACGIH):**		
13463-67-7	Titanium Dioxide	A4
1333-86-4	Carbon black	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**	
13463-67-7	Titanium Dioxide
1333-86-4	Carbon black

· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms:**

· **Signal word:** Warning

· **Hazard-determining components of labeling:**
Titanium Dioxide

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Carbon black

· ***Hazard statements:***

H351 Suspected of causing cancer. Route of exposure: Inhalation.

H402 Harmful to aquatic life.

· ***Precautionary statements:***

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***National regulations:***

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

· ***Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· ***Contact:***

· ***Abbreviations and acronyms:***

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable Liquids 4: Flammable liquids – Category 4
Oxidizing Solids 3: Oxidizing solids – Category 3
Acute Toxicity - Oral 4: Acute toxicity – Category 4
Acute Toxicity - Inhalation 3: Acute toxicity – Category 3
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B
Carcinogenicity 1A: Carcinogenicity – Category 1A
Carcinogenicity 2: Carcinogenicity – Category 2
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

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· **** Data compared to the previous version altered.***
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