



**Chemical Name:** 68HS Powder Epoxy Primer

**Manufacturer:** PPG Amercoat

**Container size:** 1 gallon

**Location:** VLA

**Disposal:** Place empty container in trash.

# Material Safety Data Sheet



Date of issue 5 August 2010

Version 11

## 1. Product and company identification

**Product name** : AMERCOAT 68HS POWDER  
**Code** : AT68HS-P  
**Supplier** : PPG Industries, Inc.  
One PPG Place  
Pittsburgh, PA 15272  
**Emergency telephone number** : (412) 434-4515 (U.S.)  
(514) 645-1320 (Canada)  
01-800-00-21-400 (Mexico)  
**Technical Phone Number** : (412) 492-5200 (ALLISON PARK, PA) 8:00 a.m. - 5:00 p.m. EST

## 2. Hazards identification

**Emergency overview** : DANGER!  
MAY FORM EXPLOSIVE DUST-AIR MIXTURES. MAY BE HARMFUL IF INHALED OR SWALLOWED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Keep away from heat, sparks and flame. Prevent dust accumulation. Do not breathe dust. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

### Potential acute health effects

**Inhalation** : May be harmful if inhaled. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.  
**Ingestion** : May be harmful if swallowed.  
**Skin** : No known significant effects or critical hazards.  
**Eyes** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

### Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
**Ingestion** : No specific data.  
**Skin** : No specific data.  
**Eyes** : Adverse symptoms may include the following:  
irritation  
redness

**Medical conditions aggravated by over-exposure** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See toxicological information (section 11)

### 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Zinc powder - zinc dust (stabilized)	7440-66-6	60 - 100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### 5. Fire-fighting measures

**Flammability of the product** : Fine dust clouds may form explosive mixtures with air. Runoff to sewer may create fire or explosion hazard.

**Extinguishing media**

Use approved Class D extinguisher or smother with dry sand, dry clay or dry ground limestone. Do not use water.

**Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : Decomposition products may include the following materials:  
metal oxide/oxides

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

**Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

## 6 . Accidental release measures

- Large spill** : Move containers from spill area. Approach release from upwind. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.
- Small spill** : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## 7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not swallow. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8 . Exposure controls/personal protection

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Eyes** : Safety glasses with side shields.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Respiratory** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## 8 . Exposure controls/personal protection

- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 . Physical and chemical properties

- Physical state** : Solid.
- Flash point** : Closed cup: Not applicable.
- Color** : Not available.
- Odor** : Not available.
- pH** : Not available.
- Boiling/condensation point** : Not available.
- Melting/freezing point** : Not available.
- Specific gravity** : 7.13
- Density ( lbs / gal )** : 59.5
- Vapor pressure** : 0 kPa (0 mm Hg)
- Vapor density** : Not available.
- Volatility** : 0% (v/v), 0% (w/w)
- Odor threshold** : Not available.
- Evaporation rate** : 0 (butyl acetate = 1)
- Octanol/water partition coefficient** : Not available.
- % Solid. (w/w)** : 100

## 10 . Stability and reactivity

- Stability** : The product may not be stable under certain conditions of storage or use.
- Conditions to avoid** : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Avoid increased storage temperature. Pressure hazard
- Materials to avoid** : Reactive or incompatible with the following materials:.,water,acids,oxidizing materials,strong alkalis
- Hazardous decomposition products** : Evolves hydrogen on contact with water.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11 . Toxicological information

- Acute toxicity**
- Conclusion/Summary** : Not available.
- Chronic toxicity**
- Conclusion/Summary** : Not available.
- Target organs** : Contains material which may cause damage to the following organs: skin.
- Carcinogenicity**

## 11 . Toxicological information

- Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity**  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity**  
**Teratogenicity** : No known significant effects or critical hazards.  
**Reproductive toxicity**  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

## 12 . Ecological information

- Environmental effects** : Water polluting material. May be harmful to the environment if released in large quantities.

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Zinc powder - zinc dust (stabilized)	Acute LC50 0.24 mg/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
	Acute LC50 68 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours

- Other adverse effects** : No known significant effects or critical hazards.

## 13 . Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: **HANDLING AND STORAGE** and Section 8: **EXPOSURE CONTROLS/PERSONAL PROTECTION** for additional handling information and protection of employees. Section 6. **Accidental release measures**

## 14 . Transport information

Regulation	UN number	Proper shipping name	Classes	PG*	Additional information
<b>UN</b>	3077	Environmentally hazardous substance, solid, n.o.s.	9	III	-
<b>IMDG</b>	3077	Environmentally hazardous substance, solid, n.o.s.. Marine pollutant (Zinc powder - zinc dust (stabilized))	9	III	Marine pollutant
<b>DOT</b>	3077	Environmentally hazardous substance, solid, n.o.s.	9	III	Marine pollutant

PG\* : Packing group

Reportable quantity RQ : CERCLA: Hazardous substances.: Zinc powder - zinc dust (stabilized): 1000 lbs. (454 kg);

## 15 . Regulatory information

United States inventory (TSCA 8b) : All components are listed or exempted.  
 Australia inventory (AICS) : All components are listed or exempted.  
 Canada inventory ( DSL ) : All components are listed or exempted.  
 China inventory (IECSC) : All components are listed or exempted.  
 Europe inventory ( REACH ) : Please contact your supplier for information on the inventory status of this material.  
 Japan inventory (ENCS) : All components are listed or exempted.  
 Korea inventory (KECI) : All components are listed or exempted.  
 New Zealand ( NZIoC ) : All components are listed or exempted.  
 Philippines inventory (PICCS) : All components are listed or exempted.

### United States

**U.S. Federal regulations** : TSCA 12(b) annual export notification: No products were found.  
 TSCA 12(b) one-time export: No products were found.  
 SARA 302/304/311/312 extremely hazardous substances: No products were found.  
 SARA 302/304 emergency planning and notification: No products were found.  
 SARA 302/304/311/312 hazardous chemicals: Zinc powder - zinc dust (stabilized)  
 CERCLA: Hazardous substances.: Zinc powder - zinc dust (stabilized): 1000 lbs. (454 kg);

### **SARA 311/312 MSDS Distribution - Chemical Inventory - Hazard Identification:**

<u>Chemical name</u>	<u>CAS #</u>	<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Reactive</u>	<u>Pressure</u>
Zinc powder - zinc dust (stabilized)	7440-66-6	N	N	N	Y	N
<b>Product as-supplied :</b>		N	N	N	Y	N

<u>SARA 313</u>	<u>Chemical name</u>	<u>CAS number</u>	<u>Concentration</u>
<b>Supplier notification</b>	: Zinc powder - zinc dust (stabilized)	7440-66-6	60 - 100

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

### Canada

**WHMIS (Canada)** : Class B-6: Reactive flammable material

### Mexico

#### Classification

**Flammability** : 0    **Health** : 1    **Reactivity** : 1

## 16 . Other information

### Hazardous Material Information System (U.S.A.)

**Health** : 1    **Flammability** : 0    **Physical hazards** : 1  
 (\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)

**Health** : 1    **Flammability** : 0    **Instability** : 1

**Date of previous issue** : 8/14/2009.

## 16 . Other information

Organization that prepared the MSDS : EHS

☑ Indicates information that has changed from previously issued version.

### Disclaimer

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*