

# Chemical Safety Data Sheet



Date of issue 6 July 2009

Version 6.06

## Section 1. Chemical product and company identification

**Code** : AT385-3/10L-C1  
**Product name** : AMERCOAT 385 WHITE RESIN  
**Product use** : Coating. Paint. Painting-related materials.  
**Manufacturer** : PPG Coatings (Tianjin) Co., Ltd  
Tianjin Economic Technological Development Area (TEDA)  
192 Huanghai Road, Tianjin 300457, P.R. China  
Tel: 8622 2532 3470  
Fax: 022-25325183  
**National Emergency Phone Number** : 0532-83889090

## Section 2. Composition, information on ingredients

**Substance/preparation** : Preparation

Chemical name	Concentration	CAS No.
reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	50 - 100	25068-38-6 (MW<=700)
titanium dioxide	50 - 100	13463-67-7
heptan-2-one	10 - 12.5	110-43-0
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	10 - 12.5	14807-96-6
kaolin	7 - 10	1332-58-7
solvent naphtha (petroleum), light arom.	7 - 10	64742-95-6
solvent naphtha (petroleum), heavy arom.	5 - 7	64742-94-5
1,2,4-trimethylbenzene	3 - 5	95-63-6
aluminium oxide	1 - 2	1344-28-1
mesitylene	1 - 2	108-67-8
naphthalene	0.5 - 1	91-20-3
propylbenzene	0.2 - 0.5	103-65-1
cumene	0.2 - 0.5	98-82-8

There are no 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.

## Section 3. Hazards identification

**Health hazards** : Limited evidence of a carcinogenic effect.  
Irritating to eyes and skin.  
May cause sensitization by skin contact.  
**Environmental hazards** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
**Physical/chemical hazards** : Flammable.

**Section 4. First aid measures**

- 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.
- 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.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Section 5. Fire-fighting measures****Extinguishing media**

- Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
- 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. This material is toxic to aquatic organisms. 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:  
carbon oxides  
halogenated compounds  
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.

**Section 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 vapor or mist. 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.

## Product name AMERCOAT 385 WHITE RESIN

- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Refer to special instructions/safety data sheet. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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.

## Section 8. Exposure controls/personal protection

Chemical name	Exposure limits
titanium dioxide	<b>GBZ-2 (China, 4/2007).</b> PC-TWA: 8 mg/m <sup>3</sup> , 0 times per shift, 8 hour(s). Form: dust
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	<b>GBZ-2 (China, 1/2002).</b> STEL: 2 mg/m <sup>3</sup> 15 minute(s). Form: Respirable dust STEL: 4 mg/m <sup>3</sup> 15 minute(s). Form: Total dust TWA: 3 mg/m <sup>3</sup> 8 hour(s). Form: Total dust <b>GBZ-2 (China, 4/2007).</b> PC-TWA: 1 mg/m <sup>3</sup> 8 hour(s). Form: dust

## Product name AMERCOAT 385 WHITE RESIN

aluminium oxide	<b>GBZ-2 (China, 4/2007).</b> PC-TWA: 4 mg/m <sup>3</sup> 8 hour(s). Form: total dust <b>GBZ-2 (China, 4/2007). Absorbed through skin.</b> PC-STEL: 75 mg/m <sup>3</sup> , 0 times per shift, 15 minute(s). PC-TWA: 50 mg/m <sup>3</sup> , 0 times per shift, 8 hour(s).
naphthalene	

**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. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

**Exposure controls**

**Occupational exposure controls** : Use only with adequate ventilation. 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.

**Eye protection** : Chemical splash goggles.

**Hand protection** : 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.

**Gloves** : butyl rubber

**Respiratory protection** : 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.

**Skin protection** : 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.

**Section 9. Physical and chemical properties**

Physical state	: Liquid.
Boiling point	: >37.78°C (>100°F)
Vapor pressure	: 0.29 kPa (2.2 mm Hg)
Relative density	: 1.45
Flash point	: Closed cup: 53.33°C (128°F)
Explosion limits	: Lower: 1.1%
Evaporation rate (butyl acetate = 1)	: 26 (butyl acetate = 1)
Volatility	: 30% (v/v), 17.76% (w/w)
Material supports combustion.	: Yes.

**Section 10. Stability and reactivity**

Stability	: Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Avoid release to the environment. Refer to special instructions/safety data sheet.
Materials to avoid	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

**Section 11. Toxicological information****Potential acute health effects**

Inhalation	: No known significant effects or critical hazards.
Ingestion	: Irritating to mouth, throat and stomach.
Skin contact	: Irritating to skin. May cause sensitization by skin contact.
Eye contact	: Irritating to eyes.

**Potential chronic health effects**

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental toxicity	Impairs fertility
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	Carc. Cat. 3; R40	-	-	-
naphthalene	Carc. Cat. 3; R40	-	-	-

**Over-exposure signs/symptoms**

Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Inhalation of high concentrations of vapor may affect the central nervous system.

<b><u>Target organs</u></b>	: Contains material which causes damage to the following organs: lungs, brain, skin, eyes, central nervous system (CNS). Contains material which may cause damage to the following organs: blood, liver, peripheral nervous system, cardiovascular system, upper respiratory tract, nose/sinuses, stomach, throat.
-----------------------------	---

**Section 12. Ecological information**

- Environmental effects** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Mobility** : Not available.
- Other adverse effects** : No known significant effects or critical hazards.  
Do not allow to enter drains or watercourses.

**Section 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.
- Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.

The classification of the product may meet the criteria for a hazardous waste. 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

**Section 14. Transport information**

- UN number** : 1263
- Proper shipping name** : Paint
- Package mark** : 3
- Packing group** : III

**Section 15. Regulatory information**

- China inventory (IECSC)** : Not determined.
- Australia inventory (AICS)** : At least one component is not listed.
- Canada inventory** : All components are listed or exempted.
- Europe inventory** : This product contains a component which may restrict import to the notifier and/or to other parties holding a concurrent notification or agreement.
- Japan inventory (ENCS)** : At least one component is not listed.
- Korea inventory (KECI)** : All components are listed or exempted.
- Philippines inventory (PICCS)** : All components are listed or exempted.
- United States inventory (TSCA 8b)** : All components are listed or exempted.

Authored with regard to:

- "Classification and Mark for commonly used dangerous chemicals" (GB13690-1992)
- "General rules for preparation of a Chemical Safety Data Sheet" (GB16483-2000)
- "The principle of classification of transport packaging groups of dangerous goods" (GB/T15098-94)
- "Classification and code of dangerous goods" (GB6944-2005)

## Section 16. Other information

Date of printing : 7/6/2009.

Prepared by EHS

Verified by EHS

☑ Indicates information that has changed from previously issued version.

Notice to reader

*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.*