## SAFETY DATA SHEET



#### Conforms to Official Mexican Standard NOM-018-STPS-2015

**Date of revision** 4 June 2024 Date of issue 4 June 2024

**Version 1** 

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product name** : AMERCOAT 1202 HOPPER CAR GRAY RESIN

**Product code** : 00477971 Other means of : Not applicable.

identification

**Product type** : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Professional applications, Used by spraying.

Use of the substance/

**Emergency telephone** 

mixture

Coating.

**Uses advised against** : Not applicable.

: PPG Industries, Inc. **Manufacturer** 

> One PPG Place Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

(514) 645-1320 (Canada) number SETIQ Interior de la República: 800-00-214-00 (México)

SETIQ Ciudad de México: (55) 5559-1588 (México)

**Technical Phone Number** : 888-977-4762

### **SECTION 2: Hazards identification**

Classification of the substance or mixture : SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 **CARCINOGENICITY - Category 1A** 

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity:

7.3% (oral), 18.3% (dermal), 63.3% (inhalation)

**GHS label elements** 

**Hazard pictograms** 





Signal word : Danger

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#### Product name AMERCOAT 1202 HOPPER CAR GRAY RESIN

#### SECTION 2: Hazards identification

**Hazard statements** 

: H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H350 - May cause cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

(lungs)

#### **Precautionary statements**

**Prevention** 

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection.

P260 - Do not breathe vapor.

P264 - Wash thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

Response

: P308 + P313 - IF exposed or concerned: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

Storage

: P405 - Store locked up.

**Disposal** 

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

result in classification

Other hazards which do not : Sanding and grinding dusts may be harmful if inhaled. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F). This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Emits toxic fumes when heated.

Supplemental label elements (First aid measures):

Photosensitive agents: In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.

See toxicological information (Section 11)

## **SECTION 3: Composition/information on ingredients**

Substance/mixture

: Mixture

**Product name** 

: AMERCOAT 1202 HOPPER CAR GRAY RESIN

Other means of identification

: Not applicable.

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#### **Product name AMERCOAT 1202 HOPPER CAR GRAY RESIN**

## **SECTION 3: Composition/information on ingredients**

Ingredient name	%	CAS number
bis-[4-(2,3-epoxipropoxi)phenyl]propane	≥20 - ≤50	1675-54-3
titanium dioxide	≥10 - ≤20	13463-67-7
2,2-bis(acryloyloxymethyl)butyl acrylate	≥5.0 - ≤10	15625-89-5
Cashew, nutshell liq., 2-hydroxyethyl ethers	≥1.0 - ≤5.0	232268-65-4
Formaldehyde, polymer with 1,3-dimethylbenzene	≥1.0 - ≤5.0	26139-75-3
12-hydroxyoctadecanoic acid, reaction products with	≥1.0 - ≤5.0	220926-97-6
1,3-benzenedimethanamine and hexamethylenediamine		
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥1.0 - <3.0	2530-83-8
crystalline silica, respirable powder (<10 microns)	<1.0	14808-60-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

#### **SECTION 4: First aid measures**

#### **Description of necessary first aid measures**

**Eye contact**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.

**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.

trained personnel.

**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. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after

contact.

**Ingestion**: If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

See toxicological information (Section 11)

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

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#### **SECTION 4: First aid measures**

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## **SECTION 5: Firefighting measures**

#### **Extinguishing media**

Suitable extinguishing media

**Unsuitable extinguishing** 

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical Hazardous thermal decomposition products

: In a fire or if heated, a pressure increase will occur and the container may burst.

 Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters

: 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.

: 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, protective equipment and emergency procedures

For non-emergency personnel

: 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**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).

#### Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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### SECTION 6: Accidental release measures

#### 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). 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.

## **SECTION 7: Handling and storage**

#### **Precautions for safe handling**

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### **Special precautions**

: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

## Advice on general occupational hygiene

: 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. 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. Store locked up. 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**

**Control parameters** 

Occupational exposure limits

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## **SECTION 8: Exposure controls/personal protection**

Ingredient name	Exposure limits
bis-[4-(2,3-epoxipropoxi)phenyl]propane	None.
titanium dioxide	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 10 mg/m³ 8 hours.
2,2-bis(acryloyloxymethyl)butyl acrylate	None.
Cashew, nutshell liq., 2-hydroxyethyl ethers	None.
Formaldehyde, polymer with 1,3-dimethylbenzene	None.
12-hydroxyoctadecanoic acid, reaction products with	ACGIH TLV (United States).
1,3-benzenedimethanamine and hexamethylenediamine	TWA: 10 mg/m³ Form: Inhalable particle TWA: 3 mg/m³, (inhalable dust) Form:
	Respirable particle
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	None.
crystalline silica, respirable powder (<10 microns)	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.025 mg/m³ 8 hours. Form: Respirable

#### Key to abbreviations

C = Ceiling Limit

**IPEL** = Internal Permissible Exposure Limit STEL = Short term exposure limit TLV = Threshold Limit Value TWA = Time Weighted Average

#### Consult local authorities for acceptable exposure limits.

## procedures

**Recommended monitoring**: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### Appropriate engineering controls

: 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.

#### **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.

#### Individual protection measures

**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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection** Skin protection **Hand protection**

: Chemical splash goggles.

: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Gloves Body protection**  polyethylene butyl rubber

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.

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## SECTION 8: Exposure controls/personal protection

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: 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. 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.

## **SECTION 9: Physical and chemical properties**

**Appearance** 

Physical state : Liquid.
Color : Gray.

Odor : Characteristic.

Odor threshold : Not available.

Molecular weight : Not applicable.

pH : Not applicable.

Melting point : Not available.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 105°C (221°F)

Auto-ignition temperature: Not available.Decomposition temperature: Not available.Flammability: Not available.Lower and upper explosive: Not available.

(flammable) limits

Evaporation rate : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 1.42

Relative density : 1.42

Density ( lbs / gal ) : 11.85

Solubility(ies) : Media Result cold water Not soluble

Solubility in water : Not available.

Partition coefficient: n- : Not applicable.

octanol/water

Viscosity : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

**Volatility** : 1% (v/v), 0.411% (w/w)

**% Solid. (w/w)** : 99.589

## **SECTION 10: Stability and reactivity**

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

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#### **Product name AMERCOAT 1202 HOPPER CAR GRAY RESIN**

## **SECTION 10: Stability and reactivity**

Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition

products.

Refer to protective measures listed in sections 7 and 8.

**Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials:

carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides

## **SECTION 11: Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2,2-bis(acryloyloxymethyl) butyl acrylate	LD50 Dermal	Rabbit	5170 mg/kg	-
	LD50 Oral	Rat	5.19 g/kg	-
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
·	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	LC50 Inhalation Dusts and mists	Rat	>5.3 mg/l	4 hours
-	LD50 Oral	Rat	7.01 g/kg	-

## Conclusion/Summary

: There are no data available on the mixture itself.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
2,2-bis(acryloyloxymethyl) butyl acrylate	Skin - Irritant	Rabbit	-	-	-

#### **Conclusion/Summary**

**Skin** : There are no data available on the mixture itself.

: There are no data available on the mixture itself.

**Respiratory**: There are no data available on the mixture itself.

**Sensitization** 

**Eyes** 

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#### **Product name AMERCOAT 1202 HOPPER CAR GRAY RESIN**

## **SECTION 11: Toxicological information**

Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing
2,2-bis(acryloyloxymethyl) butyl acrylate	skin	Rabbit	Sensitizing

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself.Respiratory : There are no data available on the mixture itself.

**Mutagenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Carcinogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
bis-[4-(2,3-epoxipropoxi) phenyl]propane titanium dioxide 2,2-bis(acryloyloxymethyl) butyl acrylate	- - -	3 2B 2B	- - -
crystalline silica, respirable powder (<10 microns)	+	1	Known to be a human carcinogen.

**Carcinogen Classification code:** 

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

**Reproductive toxicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Teratogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Formaldehyde, polymer with 1,3-dimethylbenzene	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name	3 3 7	Route of exposure	Target organs
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	inhalation	lungs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-

**Target organs** 

: Contains material which may cause damage to the following organs: lungs, upper respiratory tract, skin, eyes, central nervous system (CNS).

#### **Aspiration hazard**

Not available.

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#### **Product name AMERCOAT 1202 HOPPER CAR GRAY RESIN**

## **SECTION 11: Toxicological information**

#### Information on the likely routes of exposure

#### Potential acute health effects

: Causes serious eye irritation. Eye contact

Inhalation : No known significant effects or critical hazards.

: Causes skin irritation. May cause an allergic skin reaction. Skin contact

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Conclusion/Summary**

: There are no data available on the mixture itself. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. If splashed in the eyes, the liquid may cause irritation and reversible damage. This takes into account, where known, delayed and immediate effects and also chronic effects of

components from short-term and long-term exposure by oral, inhalation and dermal

routes of exposure and eye contact.

Short term exposure

**Potential immediate** 

effects

There are no data available on the mixture itself.

Potential delayed effects

: There are no data available on the mixture itself.

**Long term exposure** 

**Potential immediate** 

: There are no data available on the mixture itself.

effects

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

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#### **Product name AMERCOAT 1202 HOPPER CAR GRAY RESIN**

## **SECTION 11: Toxicological information**

General : May cause damage to organs through prolonged or repeated exposure. Once

sensitized, a severe allergic reaction may occur when subsequently exposed to very

low levels.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
AMERCOAT 1202 HOPPER CAR GRAY RESIN bis-[4-(2,3-epoxipropoxi)phenyl]propane 2,2-bis(acryloyloxymethyl)butyl acrylate Cashew, nutshell liq., 2-hydroxyethyl ethers 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	124453.7 15000 5190 N/A 2500	15795.5 23000 5170 1100 2500	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	65.0 N/A N/A N/A 3.56
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	7010	N/A	N/A	N/A	N/A

## **SECTION 12: Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
2,2-bis(acryloyloxymethyl) butyl acrylate	Acute LC50 0.87 mg/l	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
,	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	21 days
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Acute EC50 255 mg/l Fresh water	Algae	72 hours
	Acute EC50 473 mg/l	Daphnia	48 hours
	Acute LC50 55 mg/l	Fish	96 hours

#### **Persistence and degradability**

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## **SECTION 12: Ecological information**

Product/ingredient name	Test	Result		Dose	Inoculum
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	OECD 301D Ready Biodegradability - Closed Bottle Test	9 % - Not readily - 2	9 days	-	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	-	37 % - Not readily -	28 days	-	-
Product/ingredient name	Aquatic half-life		Photolysi	S	Biodegradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane [3-(2,3-epoxypropoxy)propyl] trimethoxysilane	-		-		Not readily  Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2,2-bis(acryloyloxymethyl) butyl acrylate	0.67	-	Low
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	High

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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

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#### **Product name AMERCOAT 1202 HOPPER CAR GRAY RESIN**

## **SECTION 14: Transport information**

	Mexico Classification	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  (bis-[4-(2,3-epoxipropoxi)phenyl] propane, 2,2-bis(acryloyloxymethyl) butyl acrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)phenyl] propane, 2,2-bis(acryloyloxymethyl) butyl acrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)phenyl] propane, 2,2-bis(acryloyloxymethyl) butyl acrylate)
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.

#### **Additional information**

Mexico : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L

or ≤5 kg.

**IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg,

provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

in this product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg,

provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

**Transport in bulk according**: Not applicable.

to IMO instruments

## **SECTION 15: Regulatory information**

#### **Mexico**

Classification

Flammability: 1 Health: 3 Reactivity: 1

#### **International regulations**

#### **Montreal Protocol**

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

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#### Product name AMERCOAT 1202 HOPPER CAR GRAY RESIN

#### **SECTION 16: Other information**

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

Health: 3 \* Flammability: 1 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. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Date of previous issue : No previous validation

Organization that prepared

the SDS

: EHS

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

#### **Notice to reader**

The information, which is based on the current knowledge of the chemical substance or mixture and applies to appropriate safety precautions for the product, is deemed correct but is not exhaustive and will be used only as a guide.

#### **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.

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