Material Safety Data Sheet



Date of issue 6 August 2010

Version

Product and company identification

: WHITE VINYL PLAS. **Product name**

Code 16W88

: PPG Industries, Inc. Supplier 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 : (724) 274-7900 (SPRINGDALE, PA) 8:00 a.m. - 5:00 p.m. EST

Hazards identification

Emergency overview : WARNING!

> COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE EYE IRRITATION.

CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Keep away from heat, sparks and flame. Do not get on skin or clothing. Avoid contact with eves. 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. Ingestion : May be harmful if swallowed. Skin May cause an allergic skin reaction. **Eyes** : Moderately irritating to eyes.

Over-exposure signs/symptoms

Inhalation : No specific data. Ingestion : No specific data.

Skin : Adverse symptoms may include the following:

irritation redness

: Adverse symptoms may include the following: Eyes

irritation watering redness

Medical conditions aggravated by over-

exposure

: Pre-existing skin disorders and disorders involving any other 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)

Product name WHITE VINYL PLAS.

3. Composition/information on ingredients

<u>Name</u>	CAS number	<u>%</u>
Ethylene, chloro-, polymer	9002-86-2	30 - 60
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	68515-49-1	10 - 30
Titanium dioxide	13463-67-7	7 - 13
reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	0.5 - 1.5
Antimony trioxide	1309-64-4	0.1 - 1
1,2,4-trimethylbenzene	95-63-6	0.1 - 1

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.

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.

: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and Skin contact 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.

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

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 : Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Extinguishing media

Suitable : Use dry chemical, CO₂, water spray (fog) or foam.

Not suitable : Do not use water jet.

: Promptly isolate the scene by removing all persons from the vicinity of the incident if Special exposure hazards

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.

Decomposition products may include the following materials: **Hazardous combustion** carbon oxides products

halogenated compounds

metal oxide/oxides

Special protective : Fire-fighters should wear appropriate protective equipment and self-contained breathing equipment for fire-fighters 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 vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

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6. Accidental release measures

Environmental precautions

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: 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).

Large spill

: Stop leak if without risk. 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. 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.

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not swallow. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 explosion-proof electrical (ventilating, lighting and material handling) equipment. 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.

8. Exposure controls/personal protection

Name	Result	ACGIH	OSHA	Ontario	Mexico	PPG
Ethylene, chloro-, polymer	TWA	1 mg/m³ R	Not established	Not established	Not established	Not established
Titanium dioxide	TWA	10 mg/m³	15 mg/m³ TD	10 mg/m³ TD	10 mg/m³ (as Ti)	Not established
	STEL	Not established	Not established	Not established	20 mg/m³ (as Ti)	Not established
Antimony trioxide	TWA	0.5 mg/m³ (as Sb)	0.5 mg/m³ (as Sb) 0.5 mg/m3 (as Sb)	(as	0.5 mg/m³ (as Sb) 1 mg/m³	Not established
1,2,4-trimethylbenzene	TWA	25 ppm	Not established	25 ppm	25 ppm	Not established

United States - Canada - Mexico

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Product name WHITE VINYL PLAS.

8.	8. Exposure controls/personal protection						
		STEL	Not established	Not established	Not established	1-1-	Not established

Key to abbreviations

= Acceptable Maximum Peak S Potential skin absorption **ACGIH** = American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization SS Skin sensitization

= Fume STEL Short term Exposure limit values

= Internal Permissible Exposure Limit **IPEL** TD Total dust **OSHA** = Occupational Safety and Health Administration. = Threshold Limit Value TLV

R = Respirable TWA = Time Weighted Average

= OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

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. 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.

: butyl rubber

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.

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

Skin

Gloves

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.

Physical and chemical properties 9.

Physical state Liquid.

Flash point Closed cup: 82.78°C (181°F)

Explosion limits : Lower: 0.9% Color Not available. Odor Not available. : Not available. Hq

Boiling/condensation point : >37.78°C (>100°F) Melting/freezing point Not available.

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Product name WHITE VINYL PLAS.

Physical and chemical properties 9.

Specific gravity : 1.31 Density (lbs/gal) : 10.93

Vapor pressure : 0.21 kPa (1.6 mm Hg)

Vapor density : Not available.

Volatility : 3% (v/v), 1.79% (w/w)

Odor threshold : Not available. : 6 (butyl acetate = 1) **Evaporation rate** : Not available.

Octanol/water partition

coefficient

% Solid. (w/w) : 98.21

10. Stability and reactivity

Stability : Stable under recommended storage and handling conditions (see section 7).

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, **Conditions to avoid**

braze, solder, drill, grind or expose containers to heat or sources of ignition.

: Reactive or incompatible with the following materials: acids, oxidizing materials, strong Materials to avoid

alkalis

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.

11. Toxicological information

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
Titanium dioxide	LD50 Oral	Rat	>10 g/kg	-
reaction product: bisphenol-A- (epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	LD50 Oral	Rat	>2 g/kg	-
	LD50 Dermal	Rabbit	>2 g/kg	-
1,2,4-trimethylbenzene	LD50 Oral	Rat	5 g/kg	-
	LC50 Inhalation	Rat	18000 mg/m3	4 hours

Conclusion/Summary

Chronic toxicity

: Not available.

Conclusion/Summary

: Not available.

Target organs

: Contains material which causes damage to the following organs: central nervous system

Contains material which may cause damage to the following organs: lungs, upper

respiratory tract, skin.

Carcinogenicity

Carcinogenicity

: Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Ethylene, chloro-, polymer	A4	3	-	-	-	-
Titanium dioxide	A4	2B	-	-	-	-
Antimony trioxide	A2	2B	-	-	_	-

Mutagenicity

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity

Teratogenicity : No known significant effects or critical hazards.

United States - Canada - Mexico

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Product name WHITE VINYL PLAS.

11. Toxicological information

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

: No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Titanium dioxide	Acute LC50 5.5 ppm Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Chronic NOEC 1 ppm Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
Antimony trioxide	Acute LC50 >80000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	Acute EC50 423450 to 496000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
1,2,4-trimethylbenzene	Acute LC50 7720 to 8280 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours

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 byproducts 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
UN	None.	Not regulated.	None.	-	-
IMDG	None.	Not regulated.	None.	-	-
DOT	None.	Not regulated.	None.	-	Remarks USA Only: Bulk Shipments (Greater than 450 Liters) are regulated by DOT for transport as Combustible Liquids.

PG*: Packing group

Reportable quantity RQ : CERCLA: Hazardous substances.: Antimony trioxide: 1000 lbs. (454 kg);

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15. Regulatory information

United States inventory (TSCA 8b) : MI components are listed or exempted.

Australia inventory (AICS) : At least one component is not listed.

Canada inventory (DSL) : All components are listed or exempted.

China inventory (IECSC) : Not determined.

Europe inventory (REACH) : Please contact your supplier for information on the inventory status of this material.

Japan inventory (ENCS): At least one component is not listed.Korea inventory (KECI): ✓ least one component is not listed.

New Zealand (NZIoC) : Substance Use Restricted

Philippines inventory (PICCS) : At least one component is not listed.

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: Titanium dioxide; Ethylene, chloro-,

polymer

CERCLA: Hazardous substances.: Antimony trioxide: 1000 lbs. (454 kg);

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

Chemical name	CAS#	<u>Acute</u>	Chronic	<u>Fire</u>	Reactive	<u>Pressure</u>
Ethylene, chloro-, polymer	9002-86-2	Ν	N	N	N	N
1,2-Benzenedicarboxylic acid, di-C9-	68515-49-1	N	N	N	N	N
11-branched alkyl esters, C10-rich						
Titanium dioxide	13463-67-7	N	Υ	N	N	N
reaction product: bisphenol-A- (epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	Y	N	N	N	N
Antimony trioxide	1309-64-4	Υ	Υ	N	N	N
Produc	t as-supplied :	Υ	Υ	Υ	N	N

SARA 313 Chemical name CAS number Concentration

Supplier notification : Antimony trioxide 1309-64-4 0.1 - 1

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

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada

WHMIS (Canada) : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C

(200°F). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B:

Material causing other toxic effects (Toxic).

Mexico

Classification

Flammability: 2 Health: 2 Reactivity: 0

Product name WHITE VINYL PLAS.

16. Other information

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

Health: 2 * Flammability: 2 Physical hazards: 0

(*) - 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: 2 Flammability: 2 Instability: 0

Date of previous issue : 7/17/2010.

Organization that prepared : EHS

the MSDS

▼ 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.