# **Material Safety Data Sheet**



Date of issue 19 June 2012

3

Version

# 1. Product and company identification

Product name	: PS 872 B 1/2 Part A	
Code	: PS 872 B 1/2 Part A	
Supplier	: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342 Phone: 818 362 6711	
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)	

2. Hazards ide	entification
Emergency overview	: DANGER!
	OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
	Reep away from combustible material. Do not breathe vapor or mist. Do not swallow. Do not get on skin or clothing. Avoid contact with eyes. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Potential acute health effe	ects
Inhalation	<ul> <li>Harmful if inhaled. Irritating to respiratory system. Can irritate eyes, nose, mouth and throat. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</li> </ul>
Ingestion	: Harmful or fatal if swallowed.
Skin Eyes	<ul> <li>Irritating to skin. May cause an allergic skin reaction.</li> <li>Irritating to eyes.</li> </ul>
Over-exposure signs/sym	iptoms
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: No specific data.
Skin	: Adverse symptoms may include the following: irritation redness dryness cracking
Eyes	: Adverse symptoms may include the following: pain or 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.

United States - Canada - Mexico Page: 1/8

Product name PS 872 B 1/2 Part A

#### 2. Hazards identification

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		
Name	CAS number	<u>%</u>
manganese dioxide	1313-13-9	15 - 40
Terphenyl, hydrogenated	61788-32-7	10 - 30
magnesium chromate	13423-61-5	10 - 30
Zeolites	1318-02-1	3 - 7
Polyphenyls, quater- and higher, partially hydrogenated	68956-74-1	1 - 5
terphenyl	26140-60-3	1 - 5
1,3-diphenylguanidine	102-06-7	0.5 - 1.5
bis(piperidinothiocarbonyl) tetrasulphide	120-54-7	0.5 - 1.5

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	<ul> <li>Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
Ingestion	: Fswallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.

#### 5. Fire-fighting measures

Flammability of the product	Contact with combustible material may cause fire. This material increases the risk of fire and may aid combustion. In a fire or if heated, a pressure increase will occur and the container may burst.
Extinguishing media	
Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
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: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

United States - Canada - Mexico Page: 2/8



Product name PS 872 B 1/2 Part A

#### 5. Fire-fighting measures

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.

#### Accidental release measures 6

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
Environmental precautions	<ul> <li>on appropriate personal protective equipment (see Section 8).</li> <li>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.</li> </ul>
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). Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. 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. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Dispose of via a licensed waste disposal contractor.

#### 7. Handling and storage

Handling

Storage

- : 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 breathe vapor or mist. Ingestion of product or cured coating may be harmful. Do not swallow. Do not get in eyes or on skin or clothing. 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. Keep away from combustible material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- : 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. Separate from reducing agents and combustible materials. See NFPA 430, Code for the Storage of Liquid and Solid Oxidizers. 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 Page: 3/8

United States - Canada - Mexico



Version 3

Product name PS 872 B 1/2 Part A

#### 8. Exposure controls/personal protection

					-	
manganese dioxide	TWA	0.2 mg/m³ (as Mn)	Not established	0.2 mg/m³ (as Mn)	0.2 mg/m³ (as Mn)	Not established
	STEL	Not established	5 mg/m³ (as Mn) C	Not established	Not established	Not established
Terphenyl, hydrogenated	TWA	0.5 ppm	Not established	0.5 ppm	0.5 ppm	Not established
magnesium chromate	TWA	0.05 mg/m <sup>3</sup> (measured as Cr)	5 μg/m³ 0.5 mg/m³ (as Cr)	0.05 mg/m³ (as Cr)	0.05 mg/m <sup>3</sup>	Not established
	STEL	Not established	1 mg/10m <sup>3</sup> Z C	Not established	Not established	Not established
terphenyl	TWA	Not established	Not established	0.05 mg/m <sup>3</sup>	Not established	Not established
	STEL	0.53 ppm C	1 ppm C	0.53 ppm C	0.5 ppm C	Not established

Key to abbreviations

- А = Acceptable Maximum Peak
- ACGIH = American Conference of Governmental Industrial Hygienists.
  - С = Ceiling Limit
  - F = Fume

IPEL = Internal Permissible Exposure Limit

- OSHA = Occupational Safety and Health Administration.
  - R = Respirable
  - Ζ = 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. 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.
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.
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.
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. 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	: 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.

SR = Respiratory sensitization SS

- = Skin sensitization
- = Short term Exposure limit values STEL

= Potential skin absorption

TD = Total dust

s

- = Threshold Limit Value TLV
- TWA = Time Weighted Average



## 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	:	<mark>L</mark> iquid.
Flash point	:	Closed cup: Not applicable.
Material supports combustion.	:	Yes.
Color	:	Black.
Odor	:	Not available.
рН	:	Not available.
<b>Boiling/condensation point</b>	:	▶37.78°C (>100°F)
Melting/freezing point	:	Not available.
Specific gravity	:	1.89
Density(lbs / gal)	:	15.77
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Evaporation rate	:	Not available.
VOC	:	Not available.
Partition coefficient: n- octanol/water	:	Not available.

# 10. Stability and reactivity

Stability	: The product may not be stable under certain conditions of storage or use.
Conditions to avoid	<ul> <li>Drying on clothing or other combustible materials may cause fire. Avoid increased storage temperature. Pressure hazard</li> </ul>
Materials to avoid	<ul> <li>Reactive or incompatible with the following materials:,combustible materials,organic materials,metals,acids,alkalis,oxidizing materials,reducing materials</li> </ul>
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

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	2111

Product/ingredient name	Result	Species	Dose	Exposure
manganese dioxide	LD50 Oral	Rat	3478 mg/kg	-
Terphenyl, hydrogenated	LD50 Oral	Rat	>10000 mg/kg	-
Zeolites	LD50 Oral	Rat	>5 g/kg	-
terphenyl	LD50 Oral	Rat	1400 mg/kg	-
1,3-diphenylquanidine	LD50 Oral	Rat	323 mg/kg	-

<u>enrente texterty</u>	
<b>Conclusion/Summary</b>	: Not available.
Defatting irritant	<ul> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.</li> </ul>



Product name PS 872 B 1/2 Part A

#### 11. Toxicological information

Target organs : Contains material which causes damage to the following organs: lungs, skin, central nervous system (CNS), nose/sinuses. Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, liver, cardiovascular system, upper respiratory tract, eye, lens or cornea. Carcinogenicity Carcinogenicity : Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure. **Classification** ACGIH IARC NTP **OSHA Product/ingredient name** 1 magnesium chromate A1 Proven. Zeolites 3 **Carcinogen Classification code:** ACGIH: A1, A2, A3, A4, A5 IARC: 1, 2A, 2B, 3, 4 NTP: Proven, Possible

NTP: Proven, Possible OSHA: +

Not listed or regulated as a carcinogen: -

**Fertility effects** 

: Contains material which may impair male fertility, based on animal data.

### 12. Ecological information

**Environmental effects** 

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

### 13. Disposal considerations

Waste disposal

: 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

### 14. Transport information

Regulation	UN number	Proper shipping name	Classes	PG*	Additional information
UN	3082	VIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (magnesium chromate)	9	111	-
IMDG	<b>\$</b> 082	VIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (magnesium chromate). Marine pollutant (magnesium chromate)	9	III	-

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Product name PS 872 B 1/2 Part A

#### 14. Transport information DOT 3082 NVIRONMENTALLY HAZARDOUS 9 Ш Reportable quantity SUBSTANCE, LIQUID, N.O.S. 63.071 lbs / 28.634 kg [0. (magnesium chromate) 48059 gal / 1.8192 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

PG\* : Packing group

Reportable quantity RQ : CERCLA: Hazardous substances.: sodium hydroxide: 1000 lbs. (454 kg); terphenyl: 1 lb. (0. 454 kg); magnesium chromate; manganese dioxide;

### 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)	: Not determined.
Korea inventory (KECI)	: All components are listed or exempted.
New Zealand(NZIoC)	: Substance Use Restricted
Philippines inventory (PICCS)	: All components are listed or exempted.
United States	

#### United States

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: terphenyl; Terphenyl, hydrogenated; manganese dioxide ERCLA: Hazardous substances.: sodium hydroxide: 1000 lbs. (454 kg); terphenyl: 1 lb. (0.454 kg); magnesium chromate; manganese dioxide;

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

terphenyl

Chemical name	<u>CAS #</u>	Acute	<u>Chronic</u>	<u>Fire</u>	<b>Reactive</b>	<u>Pressure</u>
manganese dioxide	1313-13-9	Y	Y	Ν	Y	Ν
Terphenyl, hydrogenated	61788-32-7	Ν	N	N	Ν	Ν
magnesium chromate	13423-61-5	Y	Y	Ν	Ν	Ν
Zeolites	1318-02-1	Y	N	N	Ν	Ν
Polyphenyls, quater- and high partially hydrogenated	er, 68956-74-1	Ν	Ν	Ν	Ν	Ν
terphenyl	26140-60-3	N	N	Ν	Ν	Ν
1,3-diphenylguanidine	102-06-7	Y	Y	N	Ν	Ν
bis(piperidinothiocarbonyl) tetrasulphide	120-54-7	Y	Ν	Ν	Ν	Ν
Pr	oduct as-supplied :	Y	Y	Ν	Y	Ν
<u>SARA 313</u>	Chemical name			<u>CAS number</u>	<u>Concentra</u>	<u>ition</u>
Supplier notification	manganese dioxide			1313-13-9	15 - 40	
	magnesium chromate			13423-61-5	10 - 30	

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.

26140-60-3

1 - 5

Product name PS 872 B 1/2 Part A

### 15. Regulatory information

#### <u>Canada</u>

WHMIS (Canada)

: Class C: Oxidizing material. Class D-1B: Material causing immediate and serious toxic effects (Toxic). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

#### <u>Mexico</u>

Classification

Flammability : 0 Health : 3 Reactivity : 1

#### 16. Other information

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

Health : 3 \* 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 : 3Flammability : 0Instability : 1Date of previous issue: 6/5/2012.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.



# **Material Safety Data Sheet**



Date of issue	3 July 2012
Version	5

### 1. Product and company identification

Product name	: PS 872 B 1/2 Part B
Code	: PS 872 B 1/2 Part B
Supplier	: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342 Phone: 818 362 6711
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)

2. Hazards identi	fication
Emergency overview	: DANGER!
	AMMABLE LIQUID AND VAPOR. CAUSES RESPIRATORY TRACT AND EYE IRRITATION. MAY BE HARMFUL IF INHALED OR SWALLOWED. ASPIRATION HAZARD. CAN ENTER LUNGS AND CAUSE DAMAGE. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.
	Keep away from flames, such as a pilot light, and any object that sparks, such as an electric motor. Keep away from heat. Do not smoke. Do not swallow. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. 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. Irritating to respiratory system. Can irritate eyes, nose, mouth and throat.
Ingestion	: May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.
Skin	: Moderately irritating to the skin.
Eyes	: Irritating to eyes.
Over-exposure signs/symptom	<u>IS</u>

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone.

Medical conditions aggravated by overexposure : 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

Name	<u>CAS number</u>	<u>%</u>
calcium carbonate	471-34-1	10 - 30
toluene	108-88-3	3 - 7
titanium dioxide	13463-67-7	3 - 7
proprietary modified polysulfide polymer	Not available.	3 - 7
metal	Not available.	1 - 5
proprietary modified polysulfide polymer	Not available.	0.5 - 1.5
tetrakis(diethyldithiocarbamato-S,S')tellurium	20941-65-5	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.

### 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. Seek immediate medical attention.
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	: Fswallowed, 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	: Mammable 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.
Extinguishing media	
Suitable	:
Not suitable	: Do not use water jet.
Special exposure hazards	: Fromptly 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.
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.



### 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).
Large spill	<ul> <li>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.</li> </ul>
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

Fut 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. 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
ealcium carbonate	TWA	10 MG/M3 TD 3 MG/M3 R	5 mg/m <sup>3</sup> R 15 mg/m <sup>3</sup> TD 5 mg/m3 R 15 mg/m3	Not established	Not established	Not established
toluene	TWA	20 ppm	200 ppm Z	20 ppm	50 ppm S	Not established
	STEL	Not established	500 ppm Z A 300 ppm Z C	Not established	Not established	Not established

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s

SR

SS

STEL

TD

TLV

TWA

= Potential skin absorption

= Respiratory sensitization

= Threshold Limit Value

= Time Weighted Average

= Short term Exposure limit values

= Skin sensitization

= Total dust

#### Product name PS 872 B 1/2 Part B

#### 8. Exposure controls/personal protection

	•	•				
titanium dioxide	TWA	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup> TD	10 mg/m <sup>3</sup> TD	10 mg/m <sup>3</sup>	Not
	STEL	Not established	Not established	Not established	(as Ti) 20 mg/m³ (as Ti)	established Not established
tetrakis(diethyldithiocarbamato-S, S')tellurium	TWA	0.1 mg/m³ (as Te)	0.1 mg/m³ (as Te)	0.1 mg/m³ (as Te)	0.1 mg/m³ (as Te)	Not established

Key to abbreviations

= Acceptable Maximum Peak Α

- ACGIH = American Conference of Governmental Industrial Hygienists. С = Ceiling Limit
  - F = Fume

IPEL = Internal Permissible Exposure Limit = Occupational Safety and Health Administration.

- OSHA
- R Z = Respirable

= 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. 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.
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 Hands	<ul> <li>Safety glasses with side shields.</li> <li>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</li> </ul>
Respiratory	<ul> <li>protection time of the gloves cannot be accurately estimated.</li> <li>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.</li> </ul>
Skin	<ul> <li>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.</li> <li>When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static</li> </ul>
Environmental exposure controls	<ul> <li>overalls, boots and gloves.</li> <li>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.</li> </ul>



#### Product name PS 872 B 1/2 Part B

### 9. Physical and chemical properties

Physical state	: 🗾 Iquid.
Flash point	: Closed cup: 23.33°C (74°F)
Explosion limits	: Lower: 1%
Material supports	: Yes.
combustion.	
Color	: White.
Odor	: Not available.
рН	: Not available.
<b>Boiling/condensation point</b>	: ▶37.78°C (>100°F)
Melting/freezing point	: Not available.
Specific gravity	: 1.46
Density(lbs / gal)	: 12.18
Vapor pressure	: Not available.
Vapor density	: Not available.
Evaporation rate	: Not available.
VOC	: 93 g/l
Partition coefficient: n- octanol/water	: Not available.
% Solid. (w/w)	: 93.63

# 10 . Stability and reactivity

Stability	: Stable under recommended storage and handling conditions (see Section 7).
Conditions to avoid	: Kvoid 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.
Materials to avoid	: Reactive or incompatible with the following materials:,water,acids,oxidizing materials, strong 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

Product/ingredient name	)	Result	Species	Dose	Exposure
calcium carbonate		LD50 Oral	Rat	6450 mg/kg	-
toluene		LD50 Oral	Rat	636 mg/kg	-
		LD50 Dermal	Rabbit	8.39 g/kg	-
		LC50 Inhalation	Rat	49 g/m3	4 hours
titanium dioxide		LD50 Oral	Rat	>10 g/kg	-
tetrakis(diethyldithiocarbamato-S,S') tellurium		LD50 Oral	Rat	>5000 mg/kg	-
		LD50 Dermal	Rabbit	>16000 mg/kg	-
Conclusion/Summary Chronic toxicity	: Not availa	able.			
Conclusion/Summary	: Not availa	able.			
Defatting irritant	: Prolonge dermatitis		t can defat the s	skin and lead to irritatio	n, cracking a

Product name PS 872 B 1/2 Part B

### 11. Toxicological information

Target organs

: Contains material which causes damage to the following organs: brain, eye, lens or cornea.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, liver, heart, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS).

#### **Carcinogenicity**

Carcinogenicity

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

#### **Classification**

ACGIH	IARC	NTP	OSHA
A4	3	-	-
A4	2B	-	-
A4	-	-	-
-	3	-	-
	A4 A4	A4 3 A4 2B	A4         3         -           A4         2B         -

Carcinogen Classification code:

ACGIH: A1, A2, A3, A4, A5 IARC: 1, 2A, 2B, 3, 4 NTP: Proven, Possible OSHA: + Not listed or regulated as a carcinogen: -

#### **Teratogenicity**

Developmental effects	: Contains material which may cause developmental abnormalities, based on animal data.
Fertility effects	: Contains material which may impair female fertility, based on animal data.

#### 12. Ecological information

Environmental effects

: No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
toluene	Acute LC50 5800 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
	Acute EC50 6000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Chronic NOEC 28000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours

### 13. Disposal considerations

Waste disposal

: 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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.



Product name PS 872 B 1/2 Part B

#### 13. Disposal considerations

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	1133	Adhesives	3		-
IMDG	1133	Adhesives	3	Ш	-
DOT	1133	Adhesives	3	111	<b>Reportable quantity</b> 8006.1 lbs / 3634.8 kg [78. 964 gal / 298.91 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

PG\* : Packing group

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Reportable quantity RQ : CERCLA: Hazardous substances.: thiram (ISO): 10 lbs. (4.54 kg); toluene: 1000 lbs. (454 kg);
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### 15. Regulatory information

United States inventory (TSCA 8b)	: Not determined.
Australia inventory (AICS)	: Not determined.
Canada inventory ( DSL )	: Not determined.
China inventory (IECSC)	: Not determined.
Europe inventory ( REACH )	: Please contact your supplier for information on the inventory status of this material.
Japan inventory (ENCS)	: Not determined.
Korea inventory (KECI)	: Not determined.
New Zealand ( NZIoC )	: Substance Use Restricted
Philippines inventory (PICCS)	: Not determined.
United States	

United States - TSCA 5(e) - Substances consent order: Formaldehyde, oligomeric reaction products with phenol Listed 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: metal; calcium carbonate; titanium dioxide; toluene CERCLA: Hazardous substances.: thiram (ISO): 10 lbs. (4.54 kg); toluene: 1000 lbs. (454 kg);

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

Chemical name	<u>CAS #</u>	Acute	<u>Chronic</u>	<u>Fire</u>	<b>Reactive</b>	<u>Pressure</u>
calcium carbonate	471-34-1	Ν	Ν	Ν	Ν	Ν
toluene	108-88-3	Y	Y	Y	Ν	Ν
titanium dioxide	13463-67-7	Ν	Y	Ν	Ν	Ν
proprietary modified polysulfide polymer	Not available.	Y	Ν	Ν	Ν	Ν
metal	Not available.	Ν	N	Ν	Y	Ν
proprietary modified polysulfide polymer	Not available.	Y	Ν	Ν	Ν	Ν
tetrakis(diethyldithiocarbamato-S,S tellurium	5') 20941-65-5	Ν	Y	Ν	Ν	Ν
Produc	t as-supplied :	Y	Y	V Y	Ν	Ν
SARA 313 Cher	nical name			CAS number	Concentra	tion

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Product code	PS	872	В	1/2	Part E	3

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#### 15. Regulatory information

Supplier notification

**to**luene metal 108-88-3 3 - 7 Not available. 1 - 5

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.

#### <u>Canada</u>

WHMIS (Canada)

: Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

#### <u>Mexico</u>

Classification

Flammability : 3 Health : 2 Reactivity : 0

#### 16. Other information

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

Health : 2 \* Flammability : 3 Physical hazards : 0 (\*) - Chronic

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effects
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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 : 2Flammability : 3Instability : 0Date of previous issue: 6/5/2012.Organization that prepared: EHSthe 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.

