# **Material Safety Data Sheet**



Date of issue 28 June 2018

Version 13.02

### Product and company identification

 Product name
 : PS 870 B 1 /2 Part A

 Code
 : PS 870 B 1 /2 Part A

Manufacturer / 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 identification

**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. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. 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.

Keep 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 effects

Inhalation : 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.

**Ingestion** : Harmful or fatal if swallowed.

Skin : Harmful in contact with skin. Irritating to skin. May cause an allergic skin reaction.

Eyes : Irritating to eyes.

Over-exposure signs/symptoms

**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

Canada - Mexico Page: 1/8

Product code PS 870 B 1 /2 Part A Date of issue 28 June 2018 Version 13.02

#### 2. Hazards identification

Product name PS 870 B 1 /2 Part A

**Medical conditions** aggravated by overexposure

: 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), (1988 Version)

See toxicological information (Section 11)

#### 3. Composition/information on ingredients

<u>Name</u>	CAS number	% (w/w)
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) hexasulphide	971-15-3	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.

: Check for and remove any contact lenses. Immediately flush eves with running Eye contact 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 If swallowed, seek medical advice immediately and show this container or label.

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

Notes to physician : 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.

Canada - Mexico Page: 2/8 Product code PS 870 B 1 /2 Part A

Date of issue 28 June 2018

Version 13.02

Product name PS 870 B 1 /2 Part A

# 5. Fire-fighting measures

Hazardous combustion products

 Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur 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

metal oxide/oxides

**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. Do not breathe 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

: 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** 

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. 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. If this material is part of a multiple component system, read the Material 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.

**Storage** 

: Do not store below the following temperature: 5°C (41°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. 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.

Canada - Mexico Page: 3/8

# 8. Exposure controls/personal protection

Name	Result	ACGIH	Ontario	Mexico	PPG
manganese dioxide	TWA	0.02 mg/m³ (as Mn) R 0.1 mg/m³ (as Mn)	0.2 mg/m³ (as Mn)	0.2 mg/m³ (as Mn)	Not established
	STEL	,	Not established	Not established	Not established
Terphenyl, hydrogenated	TWA	0.5 ppm	0.5 ppm	0.5 ppm	Not established
magnesium chromate	TWA	0.05 mg/m³ (measured as Cr)	0.05 mg/m³ (as Cr)	0.05 mg/m³	Not established
	STEL	Not established	Not established	Not established	Not established
Zeolites	TWA	1 mg/m³ R	1 mg/m³ R	1 mg/m³ R	Not established
terphenyl	STEL	0.53 ppm C	5 mg/m³ C	5 mg/m³ C	Not established

### Key to abbreviations

A = Acceptable Maximum Peak SR = Respiratory sensitization ACGIH = American Conference of Governmental Industrial Hygienists. SS = Skin sensitization

C = Ceiling Limit STEL = Short term Exposure limit values

F = Fume TD = Total dust

F = Fume TD = Total dust
IPEL = Internal Permissible Exposure Limit TLV = Threshold Limit Value

R = Respirable TWA = Time Weighted Average
S = Potential skin absorption

### 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 Hands

- : Safety glasses with side shields.
- : 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

Page: 4/8

Date of issue 28 June 2018 Version 13.02

Product code PS 870 B 1 /2 Part A

Product name PS 870 B 1 /2 Part A

#### **Exposure controls/personal protection** 8.

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.

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** : Liquid.

Flash point Closed cup: Not applicable.

**Material supports** : Yes.

combustion.

Color Black.

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

Specific gravity : 1.89 : 15.77 Density (lbs/gal)

: Not available. Vapor pressure Vapor density Not available. **Evaporation rate** : Not available.

VOC

: Insoluble in the following materials: cold water. **Solubility** : Not available.

Partition coefficient: n-

octanol/water

% Solid. (w/w) : 100

# 10. Stability and reactivity

**Stability** 

**Conditions to avoid** 

: The product may not be stable under certain conditions of storage or use.

Drying on clothing or other combustible materials may cause fire. Avoid increased storage temperature. Pressure hazard

Materials to avoid Reactive or incompatible with the following materials:,combustible materials,organic

materials, metals, acids, alkalis, oxidizing materials, reducing materials

**Hazardous decomposition** products

**Hazardous polymerization** 

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

Canada - Mexico Page: 5/8 Date of issue 28 June 2018 Version 13.02

Product code PS 870 B 1 /2 Part A
Product name PS 870 B 1 /2 Part A

# 11. Toxicological information

### **Acute toxicity**

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 - Female	2304 mg/kg	-
1,3-diphenylguanidine	LD50 Oral	Rat	323 mg/kg	-

Conclusion/Summary Chronic toxicity

: Not available.

**Conclusion/Summary** 

: Not available.

**Defatting irritant** 

 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

**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, spleen, lymphatic system, upper respiratory tract, bone marrow,

eye, lens or cornea.

**Carcinogenicity** 

**Carcinogenicity** : Contains material which can cause cancer. Risk of cancer depends on duration and

level of exposure.

### **Classification**

Product/ingredient name	ACGIH	IARC	NTP
manganese dioxide	A4	-	-
magnesium chromate	A1	1	Known to be a human
			carcinogen.
Zeolites	A4	3	-

Carcinogen Classification code: ACGIH: A1, A2, A3, A4, A5

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

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

a human carcinogen

Not listed or regulated as a carcinogen: -

**Mutagenicity** 

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

# 12. Ecological information

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

Product/ingredient	Result	Species	Exposure
name			
terphenyl	Acute EC50 0.022 mg/l	Daphnia	48 hours
	Chronic NOEC 0.00322 mg/l	Daphnia	72 hours

# 13. Disposal considerations

Canada - Mexico Page: 6/8

Date of issue 28 June 2018 Version 13.02

Product code PS 870 B 1 /2 Part A
Product name PS 870 B 1 /2 Part A

# 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

	TDG	Mexico	IMDG
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(magnesium chromate, terphenyl)	(magnesium chromate, terphenyl)	(magnesium chromate, terphenyl)
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	(magnesium chromate, terphenyl)	Not applicable.	(magnesium chromate, terphenyl)

### **Additional information**

Mexico

TDG : Non-bulk packages of this product are not regulated as dangerous goods when transported by road

: 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.

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.

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.

Proof of classification statement

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark).

Canada - Mexico Page: 7/8

Product code PS 870 B 1 /2 Part A Date of issue 28 June 2018 Version 13.02

Product name PS 870 B 1 /2 Part A

# 15. Regulatory information

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

<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).

**Mexico** 

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. 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.

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

Health: 3 Flammability: 0 Instability: 1

Date of previous issue : 9/21/2017

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.

Canada - Mexico Page: 8/8