

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

**1.1 Product identifier**

**Product name** PS 870 B 2 PART A  
**Synonym(s)** BMS 5-95 CLB2 • NSN 8030-00-518-3439  
 PPG PS 870 B 2 PART A • PS 870 B 2 PART A - PRODUCT CODE

**1.2 Uses and uses advised against**

**Use(s)** COATING • COATING PAINT • INDUSTRIAL APPLICATIONS • PAINT

**1.3 Details of the supplier of the safety data sheet**

**Supplier name** PPG INDUSTRIES AUSTRALIA PTY. LTD. (ASC - AUSTRALIA)  
**Address** 23 Ovata Drive, Tullamarine, VIC, Australia, 3043  
**Telephone** (03) 9335 1557  
**Fax** (03) 9335 3490  
**Email** contact.aust@ppg.com  
**Website** http://www.ppg.com/coatings/aerospace/

**1.4 Emergency telephone number(s)**

**Emergency** 1800 807 001

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**GHS Classification(s)** Acute Toxicity: Oral: Category 4  
 Skin Corrosion/Irritation: Category 2  
 Skin Sensitisation: Category 1  
 Serious Eye Damage / Eye Irritation: Category 2A  
 Acute Toxicity: Inhalation: Category 4  
 Specific Target Organ Systemic Toxicity (Single Exposure): Category 3  
 Germ Cell Mutagenicity: Category 1B  
 Carcinogenicity: Category 1B  
 Specific Target Organ Systemic Toxicity (Repeated Exposure): Category 2  
 Aquatic Toxicity (Chronic): Category 1

**2.2 Label elements**

**Signal word** DANGER

**Pictograms**



**Hazard statement(s)**

H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H340 May cause genetic defects.  
 H350 May cause cancer.  
 H373 May cause damage to organs through prolonged or repeated exposure.

**Product name PS 870 B 2 PART A**

H410 Very toxic to aquatic life with long lasting effects.

**Prevention statement(s)**

- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response statement(s)**

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P321 Specific treatment is advised - see first aid instructions.
- P330 Rinse mouth.
- P362 Take off contaminated clothing and wash before re-use.
- P391 Collect spillage.

**Storage statement(s)**

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

**Disposal statement(s)**

- P501 Dispose of contents/container in accordance with relevant regulations.

**2.3 Other Hazards**

No information provided.

**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

**3.1 Substances / Mixtures**

Ingredient	CAS number	EC number	Content
MANGANESE DIOXIDE	1313-13-9	215-202-6	30 - 60%
MAGNESIUM CHROMATE	13423-61-5	236-540-0	10 - 30%
DIPHENYLGUANIDINE	102-06-7	203-002-1	1 - 10%
ZEOLITE	1318-02-1	215-283-8	1 - 10%
SODIUM HYDROXIDE	1310-73-2	215-185-5	<1%
SODIUM STEARATE	822-16-2	212-490-5	<1%
HYDROGENATED TERPHENYLS	61788-32-7	262-967-7	10 - 30%
DIPENTAMETHYLENETHIURAM TETRASULPHIDE	120-54-7	204-406-0	1 - 10%
TERPHENYL	26140-60-3	247-477-3	1 - 10%

**4. FIRST AID MEASURES**

**Product name PS 870 B 2 PART A**

**4.1 Description of first aid measures**

**Eye** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

**Ingestion** For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). Do not induce vomiting.

**First aid facilities** Eye wash facilities and safety shower should be available.

**4.2 Most important symptoms and effects, both acute and delayed**

No information provided.

**4.3 Immediate medical attention and special treatment needed**

Treat symptomatically. 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. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

Use an extinguishing agent suitable for the surrounding fire.

**5.2 Special hazards arising from the substance or mixture**

Non flammable. May evolve toxic gases (carbon/ chromium oxides, hydrocarbons) when heated to decomposition. May evolve nitrogen oxides, sulphur oxides and metal oxides when heated to decomposition.

**5.3 Advice for firefighters**

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**5.4 Hazchem code**

- 3Z
- Alcohol Resistant Foam is the preferred firefighting medium. Else use;
- 3 Normal Foam (protein based foam that is not alcohol resistant).
- Z Wear full fire kit and breathing apparatus. Contain spill and run-off.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

**6.2 Environmental precautions**

Prevent product from entering drains and waterways.

**6.3 Methods of cleaning up**

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

**6.4 Reference to other sections**

See Sections 8 and 13 for exposure controls and disposal.

Product name **PS 870 B 2 PART A**

**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Contamination with incompatibles may cause fire or explosion. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use. Store removed from direct sunlight.

**7.3 Specific end use(s)**

No information provided.

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

**8.1 Control parameters**

**Exposure standards**

Substance	Reference	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Chromium (VI) compounds (as Cr), water soluble	SWA (AUS)	--	0.05	--	--
Hydrogenated terphenyls	SWA (AUS)	0.5	4.9	--	--
Manganese, dust & compounds (as Mn)	SWA (AUS)	--	1	--	--
Manganese, fume (as Mn)	SWA (AUS)	--	1	--	3
Sodium hydroxide (peak limitation)	SWA (AUS)	--	2	--	--
Stearates	SWA (AUS)	--	5	--	--
Terphenyls	SWA (AUS)	0.5	4.7	--	--

**Biological limits**

No biological limit values have been entered for this product.

**8.2 Exposure controls**

**Engineering Controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

**PPE**

- Eye/Face** Wear splash-proof goggles.
- Hand** Wear butyl or PVA or viton (R) gloves.
- Body** Wear coveralls. If spraying, with prolonged use, or if in confined areas, wear impervious coveralls.
- Respiratory** Wear a Type AB (Organic and Inorganic gases/vapours) respirator. If sanding dry product, wear a Class P1 (Particulate) respirator. If spraying, with prolonged use, or if in confined areas, wear an Air-line respirator.



**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	BLACK LIQUID
<b>Odour</b>	SLIGHT ODOUR
<b>Odour Threshold</b>	NOT AVAILABLE
<b>pH</b>	NOT AVAILABLE
<b>Melting Point</b>	NOT AVAILABLE
<b>Boiling Point</b>	340°C

<b>Product name</b>	<b>PS 870 B 2 PART A</b>
<b>Flash Point</b>	NOT RELEVANT
<b>Evaporation Rate</b>	NOT AVAILABLE
<b>Flammability</b>	NON FLAMMABLE
<b>Upper Explosion Limit</b>	NOT AVAILABLE
<b>Lower Explosion Limit</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	NOT AVAILABLE
<b>Vapour Density</b>	NOT AVAILABLE
<b>Solubility (water)</b>	INSOLUBLE
<b>Partition Coefficient</b>	NOT AVAILABLE
<b>Autoignition Temperature</b>	NOT AVAILABLE
<b>Decomposition Temperature</b>	NOT AVAILABLE
<b>Viscosity</b>	NOT AVAILABLE
<b>Explosive Properties</b>	NOT AVAILABLE
<b>Oxidising Properties</b>	NOT AVAILABLE
<b>Specific Gravity</b>	1.8

#### **9.2 Other information**

No information provided.

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## **10. STABILITY AND REACTIVITY**

### **10.1 Reactivity**

Carefully review all information in sections 10.2 to 10.6.

### **10.2 Chemical stability**

Stable under recommended conditions of storage.

### **10.3 Possibility of hazardous reactions**

Polymerization is not expected to occur.

### **10.4 Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources.

### **10.5 Incompatible materials**

Incompatible with combustible materials, reducing agents (e.g. sulphites), metals and some plastics and resins. Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid) and alkalis (e.g. sodium hydroxide).

### **10.6 Hazardous decomposition products**

May evolve toxic gases (carbon/ chromium oxides, hydrocarbons) when heated to decomposition. May evolve nitrogen oxides, sulphur oxides and metal oxides when heated to decomposition.

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## **11. TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

**Health hazard summary** Toxic - irritant. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. Hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1). May cause sensitisation by skin contact. May cause genetic defects.

**Eye** Irritant. Contact may result in irritation, lacrimation, pain and redness. May result in burns with prolonged contact.

<b>Product name</b>	<b>PS 870 B 2 PART A</b>
<b>Inhalation</b>	Harmful - irritant. Over exposure may result in irritation of the nose and throat, coughing, nausea and headache. High level exposure may result in dizziness, drowsiness, breathing difficulties and unconsciousness. Hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).
<b>Skin</b>	Irritant. Contact may result in irritation, redness, rash and dermatitis. May be absorbed through skin with harmful effects. May cause sensitisation by skin contact.
<b>Ingestion</b>	Harmful. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain, diarrhoea, headache, dizziness and drowsiness with large quantities.
<b>Toxicity data</b>	<p>MANGANESE DIOXIDE (1313-13-9)</p> <p>LD50 (Ingestion): &gt; 3478 mg/kg (rat)</p> <p>LD50 (Subcutaneous): 422 mg/kg (mouse)</p> <p>LDLo (Intratracheal): 50 mg/kg (rat)</p> <p>LDLo (Intravenous): 45 mg/kg (rabbit)</p> <p>TCLo (Inhalation): 49 mg/m<sup>3</sup>/7 hours (1-18 day pregnant mouse)</p> <p>DIPHENYLGUANIDINE (102-06-7)</p> <p>LD50 (Ingestion): 375 mg/kg (rat)</p> <p>LDLo (Intravenous): 25 mg/kg (dog)</p> <p>LDLo (Subcutaneous): 200 mg/kg (guinea pig)</p> <p>SODIUM HYDROXIDE (1310-73-2)</p> <p>LD50 (Intraperitoneal): 40 mg/kg (mouse)</p> <p>LDLo (Ingestion): 500 mg/kg (rabbit)</p> <p>SODIUM STEARATE (822-16-2)</p> <p>TDLo (Ingestion): 10 mg/kg (dog-inv)</p> <p>HYDROGENATED TERPHENYLS (61788-32-7)</p> <p>LD50 (Ingestion): 12.5 g/kg (mouse)</p> <p>TERPHENYL (26140-60-3)</p> <p>LD50 (Ingestion): 13200 mg/kg (mouse)</p> <p>LDLo (Ingestion): &gt; 500 mg/kg (rat)</p>

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 12.2 Persistence and degradability

No information provided.

### 12.3 Bioaccumulative potential

No information provided.

### 12.4 Mobility in soil

No information provided.

### 12.5 Results of PBT and vPvB assessment

No information provided.

### 12.6 Other adverse effects

WATER: Chromium (VI) may be reduced to Chromium (III) by organic matter present in water, and may eventually deposit in sediments. Toxic to microorganisms. May bioaccumulate. SOIL: Chromium in the soil may be transported from soil through runoff and leaching of water. ATMOSPHERE: Chromium is primarily removed from the atmosphere by fallout and precipitation and may enter surface water or soil.

Product name **PS 870 B 2 PART A**

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Waste disposal** Mix components together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer/supplier for additional information (if required). Prevent contamination of drains and waterways as environmental damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.

**14. TRANSPORT INFORMATION**

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



	Land Transport (ADG)	Sea Transport (IMDG/IMO)	Air Transport (IATA/ICAO)
<b>14.1 UN number</b>	3082	3082	3082
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
<b>14.3 Transport hazard classes</b>			
<b>DG Class</b>	9	9	9
<b>Subsidiary risk(s)</b>	None Allocated	-	-
<b>14.4 Packing group</b>	III	III	III
<b>14.5 Environmental hazards</b>		Marine Pollutant	
<b>14.6 Special precautions for user</b>			
<b>Hazchem Code</b>	•3Z		
<b>EMS</b>		F-A, S-F	

**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Poison schedule** Classified as a Schedule 5 Poison using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications** Carc. - Carcinogen  
Muta. - Mutagen  
N - Dangerous for the environment  
Xi - Irritant  
Xn - Harmful

**Risk phrases** R20/22: Harmful by inhalation and if swallowed.  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R43: May cause sensitisation by skin contact.  
R46: May cause heritable genetic damage.  
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R49: May cause cancer by inhalation.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases** S16: Keep away from sources of ignition - No smoking.  
S24: Avoid contact with skin.

**Product name** PS 870 B 2 PART A

- S37: Wear suitable gloves.
- S53: Avoid exposure - obtain special instructions before use.
- S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

**WHS regulatory information**

Ingredient name	CAS number	Regulation	Details
MAGNESIUM CHROMATE	13423-61-5	Restricted Hazardous Chemicals	Chromate. For wet abrasive blasting.

**Inventory listing(s)** AUSTRALIA: AICS (Australian Inventory of Chemical Substances)  
 All components are listed on AICS, or are exempt.

**15.2 Chemical safety assessment**

No information provided.

**16. OTHER INFORMATION**

**Additional information** IARC GROUP 1 - CONFIRMED HUMAN CARCINOGEN. This product contains an ingredient for which there is sufficient evidence to have been classified by the International Agency for Research into Cancer as a human carcinogen. The use of products known to be human carcinogens should be strictly monitored and controlled.

CHROMATES - CHROMIUM PRODUCTS: Asthma sufferers, respiratory impaired or previously sensitised (respiratory or skin) individuals are advised to avoid all exposure to chromium or chromate based products.

CHROMIUM: The most common form of chromium found in nature and in biological materials is trivalent (III) chromium which is poorly absorbed into the body. Chromium (VI) is readily absorbed where it is converted intracellularly to the carcinogenic chromium (III) form. Chromium (VI) compounds are classified as carcinogenic to humans (IARC Group 1). Chromium (III) is not classifiable as to its carcinogenicity in humans (IARC Group 3).

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**Abbreviations**

- ACGIH American Conference of Governmental Industrial Hygienists
- CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds
- CNS Central Nervous System
- EC No. EC No - European Community Number
- EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
- GHS Globally Harmonized System
- GTEPG Group Text Emergency Procedure Guide
- IARC International Agency for Research on Cancer
- LC50 Lethal Concentration, 50% / Median Lethal Concentration
- LD50 Lethal Dose, 50% / Median Lethal Dose
- mg/m<sup>3</sup> Milligrams per Cubic Metre
- OEL Occupational Exposure Limit



**Product name PS 870 B 2 PART A**

pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average

**Report Status** This ChemAlert report has been independently compiled by RMT's scientific department utilising the original Safety Data Sheet ('SDS') for the product provided to RMT by the manufacturer. The information is based on the latest chemical and toxicological research and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. It is an independent collation by RMT of information obtained from the original SDS for this product. Its content has not been authorised or verified by the manufacturer / distributor of the chemical to which it relates.

This ChemAlert report does not constitute the manufacturer's original SDS and is not intended to be a replacement for same. It is provided to subscribers of ChemAlert as a reference tool only, is not all-inclusive and does not represent any guarantee as to the properties of the product. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this ChemAlert report, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this ChemAlert report.

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**End of Report**