

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

**1.1 Product identifier**

**Product name** PR 1764 B 2 PART B  
**Synonym(s)** CM6101 MRH90 • NSN: 8030-14-517-5537 • NSN: XXXX-01-423-9241 • NSN: XXXX-01-423-9241 (PART C) • NSN: XXXX-14-517-5537 • PR-1764 B-2, PART B (C471B)  
 PART B AIRCRAFT SEALANT • PPG INDUSTRIES PR 1764 B 2 PART B • PR 1764 B 2 PART B - PRODUCT CODE • PR1764 B2 PART B • PR1764 B2, PART B (FORMERLY)

**1.2 Uses and uses advised against**

**Use(s)** AIRCRAFT SEALANT • TWO COMPONENT PACK

**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)** Flammable Liquids: Category 3  
 Skin Corrosion/Irritation: Category 2  
 Skin Sensitisation: Category 1  
 Serious Eye Damage / Eye Irritation: Category 2A  
 Specific Target Organ Systemic Toxicity (Single Exposure): Category 3  
 Carcinogenicity: Category 2  
 Specific Target Organ Systemic Toxicity (Repeated Exposure): Category 1

**2.2 Label elements**

**Signal word** DANGER

**Pictograms**



**Hazard statement(s)**

H226 Flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H351 Suspected of causing cancer.  
 H372 Causes damage to organs through prolonged or repeated exposure.

**Prevention statement(s)**

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P243 Take precautionary measures against static discharge.
- 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.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response statement(s)**

- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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.
- P362 Take off contaminated clothing and wash before re-use.
- P370 + P378 In case of fire: Use appropriate media for extinction.

**Storage statement(s)**

- P403 + P233 + P235 Store in a well-ventilated place. Keep cool. 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
NICKEL	7440-02-0	231-111-4	30 - 60%
GRAPHITE	7782-42-5	231-955-3	10 - <30%
TOLUENE	108-88-3	203-625-9	1 - <10%
2,2'-THIODIETHANETHIOL	3570-55-6	222-671-0	<1%
THIRAM	137-26-8	205-286-2	<1%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	remainder
POLYTHIOETHER	Not Available	Not Available	10 - <30%

**4. FIRST AID MEASURES**

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**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. To protect rescuer, use an Air-line respirator or Self Contained Breathing Apparatus (SCBA). Be aware of possible explosive atmospheres. Apply artificial respiration if not breathing. Give oxygen if available.

**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). If swallowed, 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.

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**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

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

Flammable. May evolve toxic gases (carbon/sulphur oxides, sulphides, hydrocarbons) when heated to decomposition. Vapour may form explosive mixtures with air. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, pilot lights, heaters, naked lights, etc when handling. Earth containers when dispensing fluids. May evolve 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**

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

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**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.

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**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, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Store above 5°C.

**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>
Graphite (all forms except fibres)	SWA (AUS)	--	3	--	--
Nickel, metal	SWA (AUS)	--	1	--	--
Nickel, soluble compounds (as Ni)	SWA (AUS)	--	0.1	--	--
Thiram	SWA (AUS)	--	1	--	--
Toluene	SWA (AUS)	50	191	150	574

**Biological limits**

Ingredient	Reference	Determinant	Sampling time	BEI
TOLUENE	ACGIH BEI	o-Cresol in urine	End of shift	0.02 mg/L
	ACGIH BEI	Toluene in urine	End of shift	0.03 mg/L
	ACGIH BEI	Toluene in blood	Prior to last shift of workweek	0.02 mg/L

**8.2 Exposure controls**

**Engineering Controls**

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

**PPE**

**Eye/Face**

Wear splash-proof goggles.

**Hand**

Wear 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**

**Appearance** GREY PASTE / SOLID  
**Odour** SLIGHT ODOUR  
**Odour Threshold** NOT AVAILABLE

<b>Product name</b>	<b>PR 1764 B 2 PART B</b>
<b>Flammability</b>	FLAMMABLE
<b>Flash Point</b>	32.22°C (cc)
<b>Boiling Point</b>	NOT AVAILABLE
<b>Melting Point</b>	NOT AVAILABLE
<b>Evaporation Rate</b>	NOT AVAILABLE
<b>pH</b>	NOT AVAILABLE
<b>Specific Gravity</b>	2.11
<b>Solubility (water)</b>	INSOLUBLE
<b>Vapour Density</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	NOT AVAILABLE
<b>Upper Explosion Limit</b>	NOT AVAILABLE
<b>Lower Explosion Limit</b>	NOT AVAILABLE
<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

#### **9.2 Other information**

No information provided.

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## **10. STABILITY AND REACTIVITY**

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### **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 oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), heat and ignition sources.

### **10.6 Hazardous decomposition products**

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

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**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Health Hazard Summary** No information provided.

No information provided.

No information provided.

No information provided.

No information provided.

**NICKEL (7440-02-0)**

LD50 (Ingestion): > 9000 mg/kg (Sprague-Dawley rat)

LD50 (Intraperitoneal): 250 mg/kg (rat)

LDLo (Ingestion): 5 mg/kg (guinea pig)

LDLo (Subcutaneous): 7.5 mg/kg (rabbit)

TCLo (Inhalation): 15 mg/m<sup>3</sup>/91W-I (guinea pig - tumors)

TDLo (Ingestion): 158 mg/kg (rat - foetotoxic)

**TOLUENE (108-88-3)**

LC50 (Inhalation): 400 ppm/24 hours (mouse)

LCLo (Inhalation): 1600 ppm (guinea pig)

LD50 (Ingestion): 636 mg/kg (rat)

LD50 (Skin): 14100 µL/kg (rabbit)

LDLo (Ingestion): 50 mg/kg (human)

**THIRAM (137-26-8)**

LC50 (Inhalation): 500 mg/m<sup>3</sup>/4 hours (rat)

LD50 (Ingestion): 210 mg/kg (rabbit); > 1800 mg/kg (rat)

LD50 (Intraperitoneal): 70 mg/kg (mouse)

LD50 (Skin): > 2000 mg/kg (rat)

LD50 (Subcutaneous): 646 mg/kg (rat)

LDLo (Ingestion): 230 mg/kg (cat)

LDLo (Skin): 1000 mg/kg (rabbit)

TCLo (Inhalation): 0.03 mg/m<sup>3</sup>/5 years intermittently (human)

TDLo (Ingestion): 108 mg/kg/1 year (rat)

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Toxic to aquatic life with long lasting effects.

**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**

No information provided.

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**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>	1133	1133	1133
<b>14.2 UN proper shipping name</b>	ADHESIVES containing flammable liquid		
<b>14.3 Transport hazard classes</b>			
<b>DG Class</b>	3	3	3
<b>Subsidiary risk(s)</b>	None Allocated	-	-
<b>14.4 Packing group</b>	III	III	III
<b>14.5 Environmental hazards</b>		Not a Marine Pollutant	
<b>14.6 Special precautions for user</b>			
<b>Hazchem Code</b>	•3Y		
<b>EMS</b>		F-E, S-D	

**15. REGULATORY INFORMATION**

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

**Poison schedule** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications** Carc. - Carcinogen  
F - Flammable  
T - Toxic  
Xi - Irritant

**Risk phrases** R10: Flammable.  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R40: Limited evidence of a carcinogenic effect.  
R43: May cause sensitisation by skin contact.  
R48/23: Toxic: danger of serious damage to health by prolonged exposure through inhalation.

**Safety phrases** S36/37: Wear suitable protective clothing and gloves.  
S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

**WHS regulatory information**

Ingredient name	CAS number	Regulation	Details
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Ingredient name	CAS number	Regulation	Details
NICKEL	7440-02-0	Restricted Hazardous Chemicals	Nickel & its compounds. For abrasive blasting >0.1%.

**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** 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.

<b>Abbreviations</b>	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
	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



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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**