1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

**Product name**
PR 1829 B 2 PART B

**Synonym(s)**
NSN: 8030-01-369-0050 • PR-1829 B-2, PART B
POLYSULFIDE AIRCRAFT SEALANT • PPG IND PR1829 B2 PART B

1.2 Uses and uses advised against

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

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)**
Skin Corrosion/Irritation: Category 2
Serious Eye Damage / Eye Irritation: Category 2A
Specific Target Organ Systemic Toxicity (Single Exposure): Category 3

2.2 Label elements

**Signal word**
WARNING

**Pictograms**

Hazard statement(s)
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Prevention statement(s)
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
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.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment is advised - see first aid instructions.
P332 + P337 + P313 If skin or eye irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before re-use.

Storage statement(s)
P403 + P233 Store in a well-ventilated place. Keep container tightly closed (applies if the substance is volatile so as to
Product name: PR 1829 B 2 PART B

generate a hazardous atmosphere.

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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS number</th>
<th>EC number</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHANOL</td>
<td>67-56-1</td>
<td>200-659-6</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>POLYTHIOETHER</td>
<td>Not Available</td>
<td>Not Available</td>
<td>30-60%</td>
</tr>
<tr>
<td>ALUMINIUM HYDROXIDE</td>
<td>21645-51-2</td>
<td>244-492-7</td>
<td>10-30%</td>
</tr>
<tr>
<td>CALCIUM CARBONATE</td>
<td>471-34-1</td>
<td>207-439-9</td>
<td>10-30%</td>
</tr>
<tr>
<td>MERCAPTAN TERMINATING POLYTHIOETHER</td>
<td>119147-78-3</td>
<td>Not Available</td>
<td>10-30%</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>13463-67-7</td>
<td>236-675-5</td>
<td>1-10%</td>
</tr>
<tr>
<td>2,2'-THIODIETHANETHIOL</td>
<td>3570-55-6</td>
<td>222-671-0</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

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 a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). 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). 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.

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

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

None allocated

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.

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. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

7.3 Specific end use(s)
No information provided.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>Reference</th>
<th>TWA ppm</th>
<th>TWA mg/m³</th>
<th>STEL ppm</th>
<th>STEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate (Limestone, Marble, Whiting)</td>
<td>SWA (AUS)</td>
<td>--</td>
<td>10</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Methanol</td>
<td>SWA (AUS)</td>
<td>200</td>
<td>262</td>
<td>250</td>
<td>328</td>
</tr>
<tr>
<td>Titanium dioxide (a)</td>
<td>SWA (AUS)</td>
<td>--</td>
<td>10</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

8.2 Biological limits

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Reference</th>
<th>Determinant</th>
<th>Sampling time</th>
<th>BEI</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHANOL</td>
<td>ACGIH BEI</td>
<td>Methanol in urine</td>
<td>End of shift</td>
<td>15 mg/L</td>
</tr>
</tbody>
</table>

8.3 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 viton (R) or nitrile gloves.
- **Body**: Wear coveralls. If spraying, with prolonged use, or if in confined areas, wear impervious coveralls.
- **Respiratory**: Wear a Type A (Organic vapour) 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
Product name: PR 1829 B 2 PART B

Appearance: WHITE PASTE
Odour: SULFIDE ODOUN
Odour Threshold: NOT AVAILABLE
pH: NOT AVAILABLE
Melting Point: NOT AVAILABLE
Boiling Point: NOT AVAILABLE
Flash Point: > 61°C
Evaporation Rate: NOT AVAILABLE
Flammability: COMBUSTIBLE
Upper Explosion Limit: NOT AVAILABLE
Lower Explosion Limit: NOT AVAILABLE
Vapour Pressure: NOT AVAILABLE
Vapour Density: NOT AVAILABLE
Solubility (water): INSOLUBLE
Partition Coefficient: NOT AVAILABLE
Autoignition Temperature: NOT AVAILABLE
Decomposition Temperature: NOT AVAILABLE
Viscosity: NOT AVAILABLE
Explosive Properties: NOT AVAILABLE
Oxidising Properties: NOT AVAILABLE
Specific Gravity: 1.43

9.2 Other information
No information provided.

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 will not 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), heat and ignition sources. Incompatible with alkalis (e.g. sodium hydroxide).

10.6 Hazardous decomposition products
May evolve toxic gases (carbon/ sulphur oxides, hydrocarbons) when heated to decomposition. May evolve metal oxides when heated to decomposition.
11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Health hazard summary
Harmful - 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. Strong, unpleasant odour at very low levels. At these levels adverse health effects are not anticipated, however at very high levels of exposure, central nervous system depression with narcotic effects may occur.

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

Inhalation
Harmful - irritant. Over exposure may result in headache, dizziness and nausea. High level exposure may result in unconsciousness and cyanosis, with coldness in the limbs.

Skin
Irritant. Contact may result in drying and defatting of the skin, rash and dermatitis. May be absorbed through skin with harmful effects.

Ingestion
Harmful. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, fatigue, dizziness and unconsciousness.

Toxicity data
- METHANOL (67-56-1)
  - LC50 (Inhalation): 50 g/m³/2 hours (mouse)
  - LCLo (Inhalation): 1000 ppm (monkey)
  - LD50 (Ingestion): 300 mg/kg (human)
  - LD50 (Skin): 15,800 mg/kg (rabbit)
  - LDLo (Ingestion): 143 mg/kg (human)
  - LDLo (Skin): 393 mg/kg (monkey)
  - TCLo (Inhalation): 300 ppm human (visual effects)
  - TDLo (Ingestion): 3429 mg/kg (man-visual change)
- ALUMINIUM HYDROXIDE (21645-51-2)
  - LDLo (Intraperitoneal): 150 mg/kg (rat)
  - TDLo (Ingestion): 79 g/kg/2 years - intermittent (child)
- CALCIUM CARBONATE (471-34-1)
  - LD50 (Ingestion): 6450 mg/kg (rat)

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No information provided.

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.

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

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA
**Product name**  PR 1829 B 2 PART B

| 14.1 UN number | None Allocated | None Allocated | None Allocated |
| 14.2 UN proper shipping name | None Allocated | None Allocated | None Allocated |
| 14.3 Transport hazard classes | None Allocated | None Allocated | None Allocated |
| DG Class | None Allocated | None Allocated | None Allocated |
| Subsidiary risk(s) | None Allocated | None Allocated | None Allocated |
| 14.4 Packing group | None Allocated | None Allocated | None Allocated |
| 14.5 Environmental hazards | None Allocated | None Allocated | None Allocated |
| 14.6 Special precautions for user | None Allocated | None Allocated | None Allocated |
| Hazchem Code | None Allocated | None Allocated | None Allocated |

**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**
Xi - Irritant

**Risk phrases**
R36/37/38: Irritating to eyes, respiratory system and skin.

**Safety phrases**
S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S37/39: Wear suitable gloves and eye/face protection.
S40: To clean the floor and all objects contaminated by this material use [appropriate material to be specified by the manufacturer].
S46: If swallowed, contact a doctor or Poisons Information Centre immediately and show container or label.

**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**
This product is used in conjunction with PR1829 B2 PART A. Please refer to the appropriate SDS before use.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

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.
Product name: PR 1829 B 2 PART B

COLOUR RATING SYSTEM: RMT has assigned all ChemAlert reports a colour rating of Green, Amber or Red for the sole purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all ChemAlert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline, a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

While all due care has been taken by RMT in the preparation of the Colour Rating System, it is intended as a guide only and RMT does not provide any warranty in relation to the accuracy of the Colour Rating System. As far as is lawfully possible, RMT accepts no liability or responsibility whatsoever for the actions or omissions of any person in reliance on the Colour Rating System.

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/m³: Milligrams per Cubic Metre
- OEL: Occupational Exposure Limit
- PEL: Permissible Exposure Limit
- pH: relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
- ppm: Parts Per Million
- REACH: Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
- 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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Based on SDS dated: 18 Oct 2014

End of Report