1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier
Product name: PS 700 PART B
Synonym(s): NSN: XXXX-00-723-5345
PPG PS 700 PART B • PRO-SEAL 700, PART B (FORMERLY)

1.2 Uses and uses advised against
Use(s): ADHESIVE • COATING • PAINT • 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 2
- Skin Sensitization: Category 1
- Serious Eye Damage / Eye Irritation: Category 2A
- Specific Target Organ Systemic Toxicity (Single Exposure): Category 3
- Aquatic Toxicity (Chronic): Category 3
- Repeated exposure may cause skin dryness or cracking

2.2 Label elements
Signal word: DANGER
Pictograms:

Hazard statement(s)
H225: Highly flammable liquid and vapour.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H412: Harmful to aquatic life with long lasting effects.
AUH066: Repeated exposure may cause skin dryness or cracking

Prevention statement(s)
P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash thoroughly after handling.
Product name: PS 700 PART B

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. This statement does not apply where this is the intended use.
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.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment is advised - see first aid instructions.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use appropriate media for extinction (applies if water increases risk).

Storage statement(s)
P403 + P233 Store in a well-ventilated place. Keep container tightly closed (applies if the substance is volatile so as to generate a hazardous atmosphere).
P403 + P235 Store in a well-ventilated place. Keep cool.
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>METHYL ETHYL KETONE (MEK)</td>
<td>78-93-3</td>
<td>201-159-0</td>
<td>10-30%</td>
</tr>
<tr>
<td>METHYL ISOBUTYL KETONE</td>
<td>108-10-1</td>
<td>203-550-1</td>
<td>10-30%</td>
</tr>
<tr>
<td>BISPHENOL-A-(EPICHLORHYDRIN), REACTION PRODUCT</td>
<td>25068-38-6</td>
<td>500-033-5</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>CARBON BLACK</td>
<td>1333-86-4</td>
<td>215-609-9</td>
<td>10-30%</td>
</tr>
<tr>
<td>GLASS, OXIDE</td>
<td>65997-17-3</td>
<td>266-046-0</td>
<td>&lt;10%</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 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
Highly flammable. May evolve toxic gases (carbon/ nitrogen oxides, 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, mobile phones, etc when handling. Earth containers when dispensing fluids.

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
• 3YE
  • Alcohol resistant foam is the preferred firefighting medium
  3 Foam
  Y Self Contained Breathing apparatus and protective gloves.
  E Evacuation of people in the vicinity of the incident should be considered.

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 tightly sealed 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. Check regularly for leaks or spills. Large storage areas should be bunded and have appropriate fire protection and ventilation systems.

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>Carbon black</td>
<td>SWA (AUS)</td>
<td>--</td>
<td>3</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Methyl ethyl ketone (MEK)</td>
<td>SWA (AUS)</td>
<td>150</td>
<td>445</td>
<td>300</td>
<td>890</td>
</tr>
<tr>
<td>Methyl isobutyl ketone</td>
<td>SWA (AUS)</td>
<td>50</td>
<td>205</td>
<td>75</td>
<td>307</td>
</tr>
</tbody>
</table>
### 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>METHYL ETHYL KETONE (MEK)</td>
<td>ACGIH BEI</td>
<td>MEK in urine</td>
<td>End of shift</td>
<td>2 mg/L</td>
</tr>
<tr>
<td>METHYL ISOBUTYL KETONE</td>
<td>ACGIH BEI</td>
<td>MIBK in urine</td>
<td>End of shift</td>
<td>1 mg/L</td>
</tr>
</tbody>
</table>

#### 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 barrier 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. Where the boiling point is < 65°C, use an AX filter type.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

- **Appearance**: BLACK LIQUID
- **Odour**: SLIGHT ODOUR
- **Odour Threshold**: NOT AVAILABLE
- **pH**: NOT AVAILABLE
- **Melting Point**: NOT AVAILABLE
- **Boiling Point**: > 37.7°C
- **Flash Point**: -1.11°C (cc)
- **Evaporation Rate**: NOT AVAILABLE
- **Flammability**: HIGHLY FLAMMABLE
- **Upper Explosion Limit**: NOT AVAILABLE
- **Lower Explosion Limit**: 1.2 %
- **Vapour Pressure**: NOT AVAILABLE
- **Vapour Density**: NOT AVAILABLE
- **Solubility (water)**: NOT AVAILABLE
- **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**: 1.18

#### 9.2 Other information

- **% Volatiles**: NOT AVAILABLE
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
Hazardous 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/ nitrogen oxides, hydrocarbons) 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. Use safe work practices to avoid eye or skin contact and inhalation. Over exposure to epoxy resins may result in skin sensitisation. Methyl ethyl ketone may result in peripheral nerve damage (with symptoms of numbness and weakness in hands and feet) if used in conjunction with n-hexane.

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 irritation of the nose and throat, with coughing. High level exposure may result in dizziness, drowsiness, breathing difficulties, pulmonary oedema and unconsciousness. May cause sensitisation by inhalation.

Skin
Irritant. Contact may result in irritation, redness, rash and dermatitis. May cause sensitisation by skin contact.

Ingestion
Harmful. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, dizziness and drowsiness. Aspiration or inhalation may cause chemical pneumonitis and pulmonary oedema.

Toxicity data
METHYL ETHYL KETONE (MEK) (78-93-3)
LC50 (Inhalation): 23500 mg/kg (rat)
LD50 (Ingestion): 2737 mg/kg (rat)
LD50 (Intraperitoneal): 607 mg/kg (rat)
LD50 (Skin): 6480 mg/kg (rabbit)
TCLo (Inhalation): 100 ppm/5 minutes (Human - eye irritant)

METHYL ISOBUTYL KETONE (108-10-1)
LC50 (Inhalation): 23300 mg/m³ (rat)
LCLo (Inhalation): 4000 ppm/4 hours (rat)
LD50 (Ingestion): 1600 mg/kg (guinea pig)
LD50 (Intraperitoneal): 268 mg/kg (mouse)
LD50 (Skin): > 20 mL/kg (rabbit)

BISPHENOL-A-(EPICHLORHYDRIN), REACTION PRODUCT (25068-38-6)
LD50 (Ingestion): 2 - 19 g/kg (rat)
LD50 (Intraperitoneal): 2.2 g/kg (rat)
LD50 (Skin): > 20 mL/kg (rabbit)

GLASS, OXIDE (65997-17-3)
TCLo (Inhalation): 5 mg/m³/7H/90W (rat)
TDLo (Intraperitoneal): 50 mg/kg (rat)
12. ECOLOGICAL INFORMATION

12.1 Toxicity
Harmful 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
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

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

Land Transport (ADG)  |  Sea Transport (IMDG/IMO)  |  Air Transport (IATA/ICAO)
---|---|---
1133 | 1133 | 1133

14.1 UN number
1133

14.2 UN proper shipping name
ADHESIVES containing flammable liquid

14.3 Transport hazard classes

<table>
<thead>
<tr>
<th>DG Class</th>
<th>Subsidiary risk(s)</th>
<th>Hazchem Code</th>
<th>EMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>None Allocated</td>
<td>3YE</td>
<td>F-E, S-D</td>
</tr>
</tbody>
</table>

14.4 Packing group

<table>
<thead>
<tr>
<th>Land Transport</th>
<th>Sea Transport</th>
<th>Air Transport</th>
</tr>
</thead>
<tbody>
<tr>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
</tbody>
</table>

14.5 Environmental hazards
None Allocated

14.6 Special precautions for user

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
F - Highly flammable
N - Dangerous for the environment
# CHEMICAL SAFETY REPORT

**Product name**: PS 700 PART B  
Xi - Irritant  
Xn - Harmful

## Risk phrases

- **R11**: Highly flammable.  
- **R36**: Irritating to eyes.  
- **R43**: May cause sensitisation by skin contact.  
- **R52/53**: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
- **R66**: Repeated exposure may cause skin dryness or cracking.  
- **R67**: Vapours may cause drowsiness and dizziness.

## Safety phrases

- **S16**: Keep away from sources of ignition - No smoking.  
- **S24**: Avoid contact with skin.  
- **S37**: Wear suitable gloves.

## Inventory listing(s)

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

## Additional information

This product is used in conjunction with PS 700 PART A. Please consult the appropriate ChemAlert report 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.

WELDING - SANDING - CUTTING DRIED OR CURED PRODUCT: If sanding, cutting or welding dried or cured product, adverse health effects may be avoided by the use of appropriate engineering controls and/or personal protective equipment. If welding, wear a Class P2 (Metal fume) respirator and depending on the nature of the surface being welded, additional protection (e.g. for organic vapours/acid gas) may also be required. A Class P1 (Particulate) respirator is recommended if dust is generated.

EPOXY - PHENOXY RESINS AND POLYURETHANES: Where spray painting with two or more component epoxy resins or polyurethane paints is undertaken, an employee shall wear a air-line respirator, full length chemically resistant coveralls and gloves. Further, if an individual is to enter an enclosed booth where a vapour or gas curing process is occurring, an air-line respirator is required. Once cured, these resins are considered non toxic.

SYNERGISM - ANTAGONISM: Ingredients in this product may act together to aggravate or reduce adverse effects. Accordingly the time weighted average concentration (TWA) provided for single ingredients should be considered as a guide only and all due care exercised when handling.

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.

COLOUR RATING SYSTEM: RMT has assigned all ChemAlert reports a colour rating of Green, Amber or
Product name: PS 700 PART B

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.

Prepared By

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Web: www.rmt.com.au
Product name: PS 700 PART B

Last Reviewed: 21 May 2014
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Based on SDS dated: 31 Dec 2013

End of Report