1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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

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
Serious Eye Damage / Eye Irritation: Category 2A
Specific Target Organ Systemic Toxicity (Single Exposure): 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.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
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.
P271 Use only outdoors or in a well-ventilated area.
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.
CHEMALERT REPORT
Full Report

Product name: PS 700 PART A

**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.

**P337 + P313** If eye irritation persists: Get medical advice/attention.

**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>ISOPROPYL ALCOHOL</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>30-60%</td>
</tr>
<tr>
<td>METHYL ETHYL KETONE (MEK)</td>
<td>78-93-3</td>
<td>201-159-0</td>
<td>30-60%</td>
</tr>
<tr>
<td>FORMALDEHYDE, POLYMER WITH AMMONIA AND CHLOROETHANE</td>
<td>63512-71-0</td>
<td>613-243-8</td>
<td>10-30%</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**

No information provided.

#### 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 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, etc when handling. Earth containers when dispensing fluids. May evolve nitrogen oxides, halogenated compounds and formaldehyde 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...
Product name: PS 700 PART A

Waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code
- Alcohol resistant foam is the preferred firefighting medium
  - 3YE
- 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 in a cool, dry, well ventilated area, preferably flammables store, removed from direct sunlight, incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation and fire protection 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</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ppm</td>
<td>mg/m³</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>SWA (AUS)</td>
<td>1</td>
<td>1.2</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>SWA (AUS)</td>
<td>400</td>
<td>983</td>
</tr>
<tr>
<td>Methyl ethyl ketone (MEK)</td>
<td>SWA (AUS)</td>
<td>150</td>
<td>445</td>
</tr>
</tbody>
</table>

| Biological limits               |
|---------------------------------|-----------|--------------|---------------|
| Ingredient                      | Reference | Determinant  | Sampling time | BEI          |
| ISOPROPYL ALCOHOL               | ACGIH BEI | Acetone in urine | End of shift at end of workweek | 40 mg/L      |
| METHYL ETHYL KETONE (MEK)       | ACGIH BEI | MEK in urine  | End of shift  | 2 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...
Product name: PS 700 PART A

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.
- **Respiratory**: Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. If spraying, wear a Type A-Class P1 (Organic gases/vapours and Particulate) 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>BROWN LIQUID</td>
</tr>
<tr>
<td>Odour</td>
<td>SLIGHT ODOUR</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>pH</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Melting Point</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt; 37.78°C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>-1.11°C</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Flammability</td>
<td>HIGHLY FLAMMABLE</td>
</tr>
<tr>
<td>Upper Explosion Limit</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Lower Explosion Limit</td>
<td>1.8 %</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Vapour Density</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Viscosity</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Oxidising Properties</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.83</td>
</tr>
</tbody>
</table>

#### 9.2 Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Volatiles</td>
<td>100 %</td>
</tr>
</tbody>
</table>
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 shock, friction, heavy impact, 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 carbon oxides and 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 methyl ethyl ketone (MEK) in combination with certain other solvents (e.g n-hexane) may result in peripheral nerve damage. Chronic exposure to some solvents may result in anaemia and liver, kidney and central nervous system (CNS) damage.

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, coughing, nausea and headache. High level exposure may result in dizziness, drowsiness, breathing difficulties and unconsciousness. Chronic exposure to some solvents may result in liver, kidney and central nervous system (CNS) damage.

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, dizziness and drowsiness. Aspiration or inhalation may cause chemical pneumonitis and pulmonary oedema.

Toxicity data
ISOPROPYL ALCOHOL (67-63-0)
LC50 (Inhalation): 16000 ppm/8 hours 16000/8 hours (rat)
LD50 (Ingestion): 3600 mg/kg (mouse)
LD50 (Skin): 12,800 mg/kg (rabbit)
TCLo (Inhalation): 100 ppm/5 minutes (Human - eye irritant)

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)
12. ECOLOGICAL INFORMATION

12.1 Toxicity
No information provided.

12.2 Persistence and degradability
Methyl ethyl ketone (MEK) vapour in the atmosphere will degrade primarily by reaction with photochemically produced hydroxyl radicals. MEK is rapidly biodegradable.

12.3 Bioaccumulative potential
Methyl ethyl ketone (MEK) is not expected to bioaccumulate.

12.4 Mobility in soil
Methyl ethyl ketone (MEK) will volatilise from the soil and water surfaces and is highly mobile with in soil.

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
For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information if disposing of large quantities (if required). Prevent contamination of drains and waterways as aquatic life may be threatened and 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

14.1 UN number
1133

14.2 UN proper shipping name
ADHESIVES containing flammable liquid

14.3 Transport hazard classes
DG Class
3

Subsidiary risk(s)
None Allocated

14.4 Packing group
II

14.5 Environmental hazards
Not a Marine Pollutant

14.6 Special precautions for user
Hazchem Code
●3YE
EMS
F-E, S-D

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
Product name: PS 700 PART A

Xi - Irritant
Xn - Harmful

Risk phrases:
R11: Highly flammable.
R36: Irritating to eyes.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.

Safety phrases:
S7/9: Keep container tightly closed and in a well ventilated place.
S16: Keep away from sources of ignition - No smoking.
S25: Avoid contact with eyes.
S29: Do not empty into drains.
S33: Take precautionary measures against static discharges.
S53: Avoid exposure - obtain special instructions before use.

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 PS 700 PART B. Please consult the appropriate ChemAlert report prior to use.

WORK PRACTICES - SOLVENTS: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

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.

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.

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.

### Prepared By

Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005
Phone: +61 8 9322 1711
Fax: +61 8 9322 1794
Email: info@rmt.com.au
Web: www.rmt.com.au
End of Report