1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier
Product name: PR 1440 B 2 PART A
Synonym(s): NSN: 8030-00-753-4599 • NSN: 8030-00-753-5005 • NSN: 8030-66-132-8756 • PR-1440 B-2, PART A
PPG INDUSTRIES PR 1440 B 2 PART A • PR 1440 B 2 PART A - PRODUCT CODE

1.2 Uses and uses advised against
Use(s): INDUSTRIAL APPLICATIONS • 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): Acute Toxicity: Oral: Category 4
                      Skin Sensitisation: Category 1
                      Acute Toxicity: Inhalation: Category 4
                      Specific Target Organ Systemic Toxicity (Repeated Exposure): Category 2

2.2 Label elements
Signal word: WARNING
Pictograms: ![Exclamation Mark] ![Asterisk]

Hazard statement(s)
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.

Prevention statement(s)
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)
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.
P314 Get medical advice/attention if you feel unwell.
P321 Specific treatment is advised - see first aid instructions.
Product name: PR 1440 B 2 PART A

P330
Rinse mouth.
P333 + P313
If skin irritation or rash occurs: Get medical advice/attention.
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>MANGANESE DIOXIDE</td>
<td>1313-13-9</td>
<td>215-202-6</td>
<td>30 - 60%</td>
</tr>
<tr>
<td>NON HAZARDOUS INGREDIENTS</td>
<td>Not Available</td>
<td>Not Available</td>
<td>remainder</td>
</tr>
<tr>
<td>HYDROGENATED TERPHENYLS</td>
<td>81788-32-7</td>
<td>262-967-7</td>
<td>10 - &lt;30%</td>
</tr>
<tr>
<td>DIPENTAMETHYLENETHIURAM TETRASULPHIDE</td>
<td>120-54-7</td>
<td>204-406-0</td>
<td>1 - &lt;10%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

No information provided.

No information provided.

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media
No information provided.

5.2 Special hazards arising from the substance or mixture
No information provided.

5.3 Advice for firefighters
No information provided.

5.4 Hazchem code
None allocated

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
No information provided.

6.2 Environmental precautions
No information provided.

6.3 Methods of cleaning up
No information provided.

6.4 Reference to other sections
No information provided.
7. HANDLING AND STORAGE

7.1 Precautions for safe handling
No information provided.

7.2 Conditions for safe storage, including any incompatibilities
No information provided.

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>Hydrogenated terphenyls</td>
<td>SWA (AUS)</td>
<td>0.5</td>
<td>4.9</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Manganese, dust &amp; compounds (as Mn)</td>
<td>SWA (AUS)</td>
<td>--</td>
<td>1</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Manganese, fume (as Mn)</td>
<td>SWA (AUS)</td>
<td>--</td>
<td>1</td>
<td>--</td>
<td>3</td>
</tr>
</tbody>
</table>

Biological limits
No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering Controls
No information provided.

PPE

Eye/Face
Wear safety glasses. If sanding dry product, wear dust-proof goggles.

Hand
Wear butyl or PVC gloves.

Body
Wear coveralls and safety boots. 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 BLACK LIQUID
Odour SLIGHT ODOUR
Odour Threshold NOT AVAILABLE
Flammability COMBUSTIBLE
Flash Point NOT AVAILABLE
Boiling Point 360°C
Melting Point NOT AVAILABLE
Evaporation Rate NOT AVAILABLE
pH NOT AVAILABLE
Specific Gravity 1.88
Solubility (water) INSOLUBLE
Vapour Density NOT AVAILABLE
Vapour Pressure NOT AVAILABLE
Upper Explosion Limit NOT RELEVANT
Product name PR 1440 B 2 PART A

Lower Explosion Limit NOT RELEVANT
Partition Coefficient NOT AVAILABLE
Autoignition Temperature NOT AVAILABLE
Decomposition Temperature NOT AVAILABLE
Viscosity NOT AVAILABLE
Explosive Properties NOT AVAILABLE
Oxidising Properties NOT AVAILABLE

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
No information provided.

10.3 Possibility of hazardous reactions
No information provided.

10.4 Conditions to avoid
No information provided.

10.5 Incompatible materials
No information provided.

10.6 Hazardous decomposition products
May evolve toxic gases if heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Harmful by inhalation and if swallowed.
Skin Contact may result in irritation, redness, rash and dermatitis.
Eye Contact may result in irritation, lacrimation, pain and redness.
Mutagenicity Not classified as a mutagen.
Carcinogenicity Not classified as a carcinogen.
Reproductive Some animal studies showed evidence that manganese dioxide had adverse effects on reproductive performance, including decreased birth weights and activity levels. There is also some studies that show exposure to manganese dioxide may cause harm to breast-fed babies.
STOT - single exposure Over exposure may result in irritation of the nose and throat, with coughing.
STOT - repeated exposure Some studies have shown that repeated exposure to manganese dioxide dust may cause damage to the lungs and central nervous system. May cause damage to organs through prolonged or repeated exposure.
Aspiration Not classified as causing aspiration.
Sensitisation May cause an allergic skin reaction.
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
No information provided.

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

<table>
<thead>
<tr>
<th>Land Transport (ADG)</th>
<th>Sea Transport (IMDG/IMO)</th>
<th>Air Transport (IATA/ICAO)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN number</td>
<td>None Allocated</td>
<td>None Allocated</td>
</tr>
<tr>
<td>14.2 UN proper shipping name</td>
<td>None Allocated</td>
<td>None Allocated</td>
</tr>
<tr>
<td>14.3 Transport hazard classes</td>
<td>None Allocated</td>
<td>None Allocated</td>
</tr>
<tr>
<td>DG Class</td>
<td>None Allocated</td>
<td>None Allocated</td>
</tr>
<tr>
<td>Subsidiary risk(s)</td>
<td>None Allocated</td>
<td>None Allocated</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>None Allocated</td>
<td>None Allocated</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>None Allocated</td>
<td>None Allocated</td>
</tr>
<tr>
<td>14.6 Special precautions for user</td>
<td>None Allocated</td>
<td>None Allocated</td>
</tr>
<tr>
<td>Hazchem Code</td>
<td>None Allocated</td>
<td></td>
</tr>
</tbody>
</table>

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
Xi - Irritant
Xn - Harmful

Risk phrases
R20/22: Harmful by inhalation and if swallowed.
R43: May cause sensitisation by skin contact.
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Safety phrases
S24/25: Avoid contact with skin and eyes.
15.2 Chemical safety assessment

No information provided.

16. OTHER INFORMATION

Additional information

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.

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
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
PR 1440 B 2 PART A

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