1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier
Product name: CA 9311/F36231 BASE COMPONENT
Synonym(s): CA 9311/F36231 BASE COMPONENT - PRODUCT CODE

1.2 Uses and uses advised against
Use(s): COATING • PAINT

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
- Acute Toxicity: Oral: Category 4
- Serious Eye Damage / Eye Irritation: Category 2A
- Specific Target Organ Systemic Toxicity (Single Exposure): Category 3
- Aquatic Toxicity (Chronic): Category 3

2.2 Label elements

Signal word: WARNING
Pictograms:
- Flammable liquid
- Caution

Hazard statement(s)
- H226: Flammable liquid and vapour.
- H302: Harmful if swallowed.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H412: Harmful to aquatic life with long lasting effects.

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.
- P243: Take precautionary measures against static discharge.
- P261: Avoid breathing 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.
- P273: Avoid release to the environment.
Product name: CA 9311/F36231 BASE COMPONENT

Wear protective gloves/protective clothing/eye protection/face protection.

Response statement(s)

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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.
P330 Rinse mouth.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P370 + P378 In case of fire: Use appropriate media for extinction.

Storage statement(s)

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 AMYL KETONE</td>
<td>110-43-0</td>
<td>203-767-1</td>
<td>10 - 30%</td>
</tr>
<tr>
<td>METHYL ETHYL KETONE (MEK)</td>
<td>78-93-3</td>
<td>201-159-0</td>
<td>10 - 30%</td>
</tr>
<tr>
<td>2-METHOXY-1-METHYLETHYL ACETATE</td>
<td>108-65-6</td>
<td>203-603-9</td>
<td>1 - 10%</td>
</tr>
<tr>
<td>ACETYLACETONE</td>
<td>123-54-6</td>
<td>204-634-0</td>
<td>1 - 10%</td>
</tr>
<tr>
<td>ETHYL-3-ETHOXYPROPIONATE</td>
<td>763-69-9</td>
<td>212-112-9</td>
<td>1 - 10%</td>
</tr>
<tr>
<td>ETHYLACETONE</td>
<td>100-41-4</td>
<td>202-849-4</td>
<td>1 - 10%</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>13463-67-7</td>
<td>236-675-5</td>
<td>1 - 10%</td>
</tr>
<tr>
<td>XYLENE</td>
<td>1330-20-7</td>
<td>215-535-7</td>
<td>1 - 10%</td>
</tr>
<tr>
<td>3-DODECYL-1-(2,2,6,6-TETRAMETHYL-4-piperidyl)pyrrolidine-2,5-dione</td>
<td>79720-19-7</td>
<td>279-242-6</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>POLYESTER RESINS</td>
<td>69929-19-7</td>
<td>Not Available</td>
<td>10 - 30%</td>
</tr>
<tr>
<td>1-BUTANOL, 4-(ETHENYLOXY)-, POLYMER WITH CHLOROTRIFLUOROETHENE,</td>
<td>88795-12-4</td>
<td>Not Available</td>
<td>1 - 10%</td>
</tr>
<tr>
<td>(ETHENYLOXY)CYCLOHEXANE AND ETHOXYETHENE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BARIUM SULPHATE</td>
<td>7727-43-7</td>
<td>231-784-4</td>
<td>1 - 10%</td>
</tr>
<tr>
<td>ISONONYL ACETATE</td>
<td>108419-33-6</td>
<td>Not Available</td>
<td>1 - 10%</td>
</tr>
<tr>
<td>BENZOTRIAZOLE DERIVATIVE</td>
<td>127519-17-9</td>
<td>407-000-3</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>PHENOL, 2-[4,6-BIS(2,4-DIMETHYLPHENYL)-1,3,5-TRIAZIN-2-YL]-5(OCTYLOXY)-,</td>
<td>195628-73-0</td>
<td>Not Available</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>BRANCHED AND LINEAR</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES
Product name

CA 9311/F36231 BASE COMPONENT

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

● 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.

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>1-Methoxy-2-propanol acetate</td>
<td>SWA (AUS)</td>
<td>50</td>
<td>274</td>
<td>100</td>
<td>548</td>
</tr>
</tbody>
</table>
Product name: CA 9311/F36231 BASE COMPONENT

<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>Barium sulphate</td>
<td>SWA (AUS)</td>
<td>--</td>
<td>10</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>SWA (AUS)</td>
<td>100</td>
<td>434</td>
<td>125</td>
<td>543</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 n-amyl ketone</td>
<td>SWA (AUS)</td>
<td>50</td>
<td>233</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Titanium dioxide (a)</td>
<td>SWA (AUS)</td>
<td>--</td>
<td>10</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Xylene</td>
<td>SWA (AUS)</td>
<td>80</td>
<td>--</td>
<td>150</td>
<td>--</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>ETHYLBENZENE</td>
<td>ACGIH BEI</td>
<td>Sum of mandelic acid and phenylglyoxylic acid in urine</td>
<td>End of shift at end of workweek</td>
<td>0.7 g/g creatinine</td>
</tr>
<tr>
<td>METHYL ETHYL KETONE (MEK)</td>
<td>ACGIH BEI</td>
<td>Ethyl benzene in end-exhaled air</td>
<td>Not critical</td>
<td>-</td>
</tr>
<tr>
<td>XYLENE</td>
<td>ACGIH BEI</td>
<td>Methylhippuric acids in urine</td>
<td>End of shift</td>
<td>1.5 g/g creatinine</td>
</tr>
</tbody>
</table>

**8.2 Exposure controls**

**Engineering Controls** No information provided.

**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, with prolonged use, or if in confined areas, wear a Full-face Type A-Class P1 (Organic gases/vapours and Particulate) respirator or 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** GREY LIQUID
- **Odour** SLIGHT ODOUR
- **Odour Threshold** NOT AVAILABLE
- **pH** NOT AVAILABLE
- **Melting Point** NOT AVAILABLE
- **Boiling Point** > 37.78°C
- **Flash Point** 26.67°C (cc)
- **Evaporation Rate** NOT AVAILABLE
- **Flammability** FLAMMABLE
- **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
### CHEMALERT REPORT

**Product name**  
CA 9311/F36231 BASE COMPONENT

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<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>1.19</td>
</tr>
</tbody>
</table>

### 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

**Health Hazard Summary**

No information provided.

**METHYL AMYL KETONE (110-43-0)**

- LCLo (Inhalation): 4000 ppm/4 hours (rat)
- LD50 (Ingestion): 730 mg/kg (mouse)
- LD50 (Intraperitoneal): 400 mg/kg (mouse)
- LD50 (Skin): 12.6 ml/kg (rabbit)

**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)

**2-METHOXY-1-METHYLETHYL ACETATE (108-65-6)**

- LD50 (Ingestion): 8532 mg/kg (rat)
- LD50 (Intraperitoneal): 750 mg/kg (mouse)
- LD50 (Skin): > 5000 mg/kg (rabbit)

**ACETYLACETONE (123-54-6)**

- LC50 (Inhalation): 5.1 mg/L/4hrs
### CA 9311/F36231 BASE COMPONENT

- **LCLo (Inhalation):** 1000 ppm/4hr (rat)
- **LD50 (Ingestion):** 570 mg/kg (rat)
- **LD50 (Skin):** 775 mg/kg (rabbit)
- **LDLo (Intraperitoneal):** 400 mg/kg (rat)
- **LDLo (Skin):** 20 mL/kg (guinea pig)

#### ETHYL-3-ETHOXYPROPIONATE (763-69-9)

- **LC50 (Inhalation):** > 1000 ppm/6 hours (rat)
- **LD50 (Ingestion):** 5000 mg/kg (rat)
- **LD50 (Skin):** 10 mL/kg (rabbit)

#### ETHYLBENZENE (100-41-4)

- **LC50 (Inhalation):** 50 g/m³/2 hours (mouse)
- **LCLo (Inhalation):** 4000 ppm/4 hours (rat)
- **LD50 (Ingestion):** 3500 mg/kg (rat)
- **LD50 (Skin):** 17800 mg/kg (rabbit)
- **TCLo (Inhalation):** 100 ppm/7 hours (human)

#### XYLENE (1330-20-7)

- **LC50 (Inhalation):** 4330–5984 ppm/6 hours (rat)
- **LCLo (Inhalation):** 10000 ppm/6 hours (man)
- **LD50 (Ingestion):** 4300 mg/kg (rat)
- **LD50 (Intraperitoneal):** 1548 mg/kg (mouse)
- **LD50 (Skin):** > 1700 mg/kg (rabbit)
- **LD50 (Subcutaneous):** 1700 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**

No information provided.

**Legislation**

Dispose of in accordance with relevant local legislation.

### 14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE
Product name: CA 9311/F36231 BASE COMPONENT

<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>1263</td>
<td>1263</td>
<td>1263</td>
</tr>
</tbody>
</table>

14.1 UN number 1263 1263 1263
14.2 UN proper shipping name PAINT or PAINT RELATED MATERIAL
14.3 Transport hazard classes
- DG Class: 3 3 3
- Subsidiary risk(s): None Allocated - -
14.4 Packing group
- III  III  III
14.5 Environmental hazards Not a Marine Pollutant
14.6 Special precautions for user
- Hazchem Code •3Y
- EMS F-E, S-E

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
- F - Flammable
- N - Dangerous for the environment
- Xi - Irritant
- Xn - Harmful

Risk phrases
- R10: Flammable.
- R22: Harmful if swallowed.
- R36: Irritating to eyes.
- R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R67: Vapours may cause drowsiness and dizziness.

Safety phrases
- S9: Keep container in a well ventilated place.
- S16: Keep away from sources of ignition - No smoking.
- S24/25: Avoid contact with skin and eyes.

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
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
CA 9311/F36231 BASE COMPONENT

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.

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

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
CA 9311/F36231 BASE COMPONENT

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

Last Reviewed: 15 Sep 2015
Date Printed: 20 Oct 2016
Based on SDS dated: 30 Jun 2015

End of Report