

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### 1.1 Product identifier

**Product name** EC75 EPOXY TOPCOAT TRANSPARENT 5LT  
**Synonym(s)** EC75/C9071-KBH0 - PRODUCT CODE • TOPCOAT EPOXY TRANSPARENT

### 1.2 Uses and uses advised against

**Use(s)** AVIATION APPLICATIONS • COATING • EPOXY 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 2  
Acute Toxicity: Skin: Category 4  
Skin Corrosion/Irritation: Category 2  
Skin Sensitisation: Category 1  
Serious Eye Damage / Eye Irritation: Category 1  
Acute Toxicity: Inhalation: Category 4

### 2.2 Label elements

**Signal word**

**DANGER**

**Pictograms**



**Hazard statement(s)**

H225 Highly flammable liquid and vapour.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.

**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.  
P271 Use only outdoors or in a well-ventilated area.

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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)**

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.  
 P310 Immediately call a POISON CENTER or doctor/physician.  
 P321 Specific treatment is advised - see first aid instructions.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P362 Take off contaminated clothing and wash before re-use.  
 P370 + P378 In case of fire: Use appropriate media for extinction.

**Storage statement(s)**

P403 + P235 Store in a well-ventilated place. Keep cool.

**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**

Ingredient	CAS number	EC number	Content
EPOXY RESIN AND BISPHENOL A POLYMER	25036-25-3	607-500-3	30 - 60%
XYLENE	1330-20-7	215-535-7	30 - 60%
N-BUTANOL	71-36-3	200-751-6	10 - 30%
ETHYLBENZENE	100-41-4	202-849-4	<10%

**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 are recommended.

**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.

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## 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, heaters, naked lights, pilot 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. 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.
- E Evacuation of people in and around the immediate 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

Exposure standards

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Substance	Reference	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ethyl benzene	SWA (AUS)	100	434	125	543
Xylene	SWA (AUS)	80	--	150	--
n-Butanol	SWA (AUS)	50	152	--	--

**Biological limits**

Ingredient	Reference	Determinant	Sampling time	BEI
ETHYLBENZENE	ACGIH BEI	Sum of mandelic acid and phenylglyoxylic acid in urine	End of shift at end of workweek	0.7 g/g creatinine
	ACGIH BEI	Ethyl benzene in end-exhaled air	Not critical	-
XYLENE	ACGIH BEI	Methylhippuric acids in urine	End of shift	1.5 g/g creatinine

**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 PVA or viton (R) gloves.
- Body** Wear coveralls.
- Respiratory** Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. If spraying, wear an Air-line respirator. If sanding dry product, wear a Class P1 (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**

<b>Appearance</b>	COLOURLESS LIQUID
<b>Odour</b>	CHARACTERISTIC ODOUR
<b>Odour Threshold</b>	NOT AVAILABLE
<b>Flammability</b>	HIGHLY FLAMMABLE
<b>Flash Point</b>	20°C (cc)
<b>Boiling Point</b>	> 37.78°C
<b>Melting Point</b>	NOT AVAILABLE
<b>Evaporation Rate</b>	NOT AVAILABLE
<b>pH</b>	NOT AVAILABLE
<b>Specific Gravity</b>	0.984
<b>Solubility (water)</b>	INSOLUBLE
<b>Vapour Density</b>	> 1 (Air = 1)
<b>Vapour Pressure</b>	0.800 kPa @ 20°C
<b>Upper Explosion Limit</b>	11 %
<b>Lower Explosion Limit</b>	1 %
<b>Partition Coefficient</b>	NOT AVAILABLE
<b>Autoignition Temperature</b>	NOT AVAILABLE

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Decomposition Temperature NOT AVAILABLE  
Viscosity NOT AVAILABLE  
Explosive Properties NOT AVAILABLE  
Oxidising Properties NOT AVAILABLE

**9.2 Other information**

% Volatiles NOT AVAILABLE

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## 10. STABILITY AND REACTIVITY

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### 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 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.

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## 11. TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

<b>Health hazard summary</b>	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. Chronic exposure to some solvents may result in anaemia and liver, kidney and central nervous system (CNS) damage. May cause sensitisation by skin contact.
<b>Eye</b>	Irritant. Contact may result in irritation, lacrimation, pain and redness. May result in burns with prolonged contact.
<b>Inhalation</b>	Irritant. Over exposure may result in irritation of the nose and throat, coughing and headache. High level exposure may result in nausea, dizziness and drowsiness.
<b>Skin</b>	Irritant. Contact may result in irritation, redness, rash and dermatitis. May be absorbed through skin with harmful effects. May cause sensitisation by skin contact.
<b>Ingestion</b>	Harmful. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, dizziness and drowsiness. Aspiration or inhalation may cause chemical pneumonitis and pulmonary oedema.
<b>Toxicity data</b>	EPOXY RESIN AND BISPHENOL A POLYMER (25036-25-3) LD50 (Ingestion): 2-19 g/kg (rat) 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) N-BUTANOL (71-36-3) LC50 (Inhalation): 8000 ppm/4 hours (rat) LD50 (Ingestion): 790 mg/kg (rat)

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LD50 (Skin): 3200 mg/kg (mouse)  
 LDLo (Ingestion): 1760 mg/kg (dog)  
 LDLo (Skin): 2000 mg/kg (dog)  
 TCLo (Inhalation): 25 ppm (human)  
 ETHYLBENZENE (100-41-4)  
 LC50 (Inhalation): 50 g/m<sup>3</sup>/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)

**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**

Aliphatic hydrocarbons behave differently in the environment depending on their size. WATER: Light aliphatics volatilise rapidly from water (half life - few hours). Bioconcentration should not be significant. SOIL: Light aliphatics biodegrade quickly in soil and water, heavy aliphatics biodegrade very slowly. ATMOSPHERE: Vapour-phase aliphatics will degrade by reaction with hydroxyl radicals.

**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**



	Land Transport (ADG)	Sea Transport (IMDG/IMO)	Air Transport (IATA/ICAO)
<b>14.1 UN number</b>	1263	1263	1263
<b>14.2 UN proper shipping name</b>	PAINT or PAINT RELATED MATERIAL		

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**14.3 Transport hazard classes**

<b>DG Class</b>	3	3	3
<b>Subsidiary risk(s)</b>	None Allocated	-	-

**14.4 Packing group**

	II	II	II
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**14.5 Environmental hazards**

None Allocated

**14.6 Special precautions for user**

<b>Hazchem Code</b>	•3YE	
<b>EMS</b>		F-E, S-E

**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 - Flammable  
 Xi - Irritant  
 Xn - Harmful

**Risk phrases**  
 R11: Highly flammable.  
 R20/21: Harmful by inhalation and in contact with skin.  
 R38: Irritating to skin.  
 R41: Risk of serious damage to eyes.  
 R43: May cause sensitisation by skin contact.

**Safety phrases**  
 S16: Keep away from sources of ignition - No smoking.  
 S23: Do not breathe gas/fumes/vapour/spray (where applicable).  
 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.  
 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** **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.

**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:

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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/m <sup>3</sup>	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 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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**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

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**End of Report**