

# Safety data sheet

## According to 91/155 EEC

Printing date 20.03.2013

Vers.-Nr: 40

Revision: 02.01.2013

Hazardous according to criteria of Australian Safety and Compensation Council





### 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Transpoxy Masterbond Wintergrade 4.77 pack B
- **Article number:** 477b
- **Application of the substance/preparation:**  
Epoxy curing agent  
Paint
- **Details of the supplier of the safety data sheet**
- **Manufacturer/supplier:** Wagon Paints Australia P/L 5 Stephenson Rd Bayswater North 3153
- **Emergency telephone number:** (03) 9729 1344 from 8.00 am to 4.30 pm

### 2 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

107-15-3	ethylenediamine	≤ 2.5%
	 H226;  H334;  H314;  H302; H312; H317	

### 3 Hazards identification

· **Classification of the substance or mixture**



GHS02 flame

H226 Flammable liquid and vapour.



GHS08 health hazard

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 corrosion

H314 Causes severe skin burns and eye damage.



GHS07

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008 Void**

(Contd. on page 2)

AUS

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(Contd. of page 1)

### · Hazard pictograms



GHS02 GHS05 GHS08

### · Signal word *Danger*

### · Hazard statements

*Flammable liquid and vapour.*

*Causes severe skin burns and eye damage.*

*May cause allergy or asthma symptoms or breathing difficulties if inhaled.*

*May cause an allergic skin reaction.*

*Harmful to aquatic life.*

*Harmful to aquatic life with long lasting effects.*

### · Precautionary statements

*Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*

*IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*Immediately call a POISON CENTER or doctor/physician.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

## 4 First aid measures

### · After inhalation:

*Supply fresh air and to be sure call for a doctor.*

*In case of unconsciousness place patient stably in side position for transportation.*

### · After skin contact: Immediately wash with water and soap and rinse thoroughly.

### · After eye contact:

*Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*

### · After swallowing: If symptoms persist consult doctor.

## 5 Firefighting measures

· **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Protective equipment:** No special measures required.

## 6 Accidental release measures

### · Personal precautions, protective equipment and emergency procedures

*Wear protective equipment. Keep unprotected persons away.*

### · Environmental precautions:

*Inform respective authorities in case of seepage into water course or sewage system.*

*Do not allow to enter sewers/ surface or ground water.*

### · Methods and material for containment and cleaning up:

*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*

*Dispose contaminated material as waste according to item 13.*

*Ensure adequate ventilation.*

*Do not flush with water or aqueous cleansing agents*

### · Reference to other sections

*See Section 7 for information on safe handling.*

*See Section 8 for information on personal protection equipment.*

(Contd. on page 3)

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See Section 13 for disposal information.

(Contd. of page 2)

### \* 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

### \* 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

ethylenediamine ( $\leq 2.5\%$ )

NES	25 mg/m <sup>3</sup> , 10 ppm
	Sen

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

AUS

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(Contd. of page 3)

**· Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

**· General Information**

**· Appearance:**

**Form:** Fluid  
**Colour:** According to product specification

**· Odour:** Characteristic

**· Odour threshold:** Not determined.

**· pH-value:** Not determined.

**· Change in condition**

**Boiling point/Boiling range:** 162 °C

**· Flash point:** 40 °C

**· Flammability (solid, gaseous):** Not applicable.

**· Ignition temperature:** 300 °C

**· Decomposition temperature:** Not determined.

**· Self-igniting:** Product is not selfigniting.

**· Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**· Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

**· Vapour pressure:** Not determined.

**· Density at 20 °C:** 0.99764 g/cm<sup>3</sup>

**· Relative density** Not determined.

**· Vapour density** Not determined.

**· Evaporation rate** Not determined.

**· Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

**· Partition coefficient (n-octanol/water):** Not determined.

**· Viscosity:**

**Dynamic at 20 °C:** 7000 mPas

**Kinematic:** Not determined.

### 10 Stability and reactivity

**· Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**· Hazardous decomposition products:** No dangerous decomposition products known.

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(Contd. on page 5)

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(Contd. of page 4)

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**ethylenediamine**

Oral	LD50	500 mg/kg (rat)
Dermal	LD50	730 mg/kg (rabbit)
Inhalative	LC50/4 h	0.3 mg/l (mouse)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

### 12 Ecological information

· **Aquatic toxicity:**

**ethylenediamine**

IC50	500-1000 mg/l (Bacteria)
LC50	4.5 mg/l (daphnia)
	210 mg/l (fish)

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· **UN-Number**

· **ADG, IMDG, IATA** UN2924

· **UN proper shipping name**

· **ADG** 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHYLENEDIAMINE)

· **IMDG, IATA** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHYLENEDIAMINE)

(Contd. on page 6)

AUS

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(Contd. of page 5)

· **Transport hazard class(es)**· **ADG, IMDG, IATA**

· **Class** 3  
 · **Label** 3+8

· **Packing group**· **ADG, IMDG, IATA** III· **Environmental hazards:**· **Marine pollutant:** No· **Special precautions for user**· **Danger code (Kemler):** 38· **EMS Number:** F-E,S-C· **Segregation groups** Alkalis· **Transport/Additional information:**· **ADG**· **Limited quantities (LQ)** 5L· **Transport category** 3· **Tunnel restriction code** D/E

· **UN "Model Regulation":** UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHYLENEDIAMINE),  
3 (8), III

### 15 Regulatory information

· **Australian Inventory of Chemical Substances**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Drugs and Poisons**

None of the ingredients is listed.

· **Labelling according to Regulation (EC) No 1272/2008 Void**· **Hazard pictograms**

GHS02 GHS05 GHS08

· **Signal word** Danger· **Hazard statements**

Flammable liquid and vapour.

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Harmful to aquatic life.

Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

(Contd. on page 7)

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(Contd. of page 6)

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*Immediately call a POISON CENTER or doctor/physician.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

### **16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*ICAO: International Civil Aviation Organization*

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

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