

Safety data sheet

According to 91/155 EEC

Printing date 20.03.2013

Vers.-Nr: 38

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 4.77 pack A
- **Article number:** 477a-1
- **Application of the substance/preparation:**
Epoxy coating
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:**

25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) ⚠ H411; ⚠ H315; H319; H317	10-25%
25036-25-3	reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weigh > 700) ⚠ H315; H319; H317; H303; H313	10-25%
1330-20-7	xylene, mixture of isomers ⚠ H226; ⚠ H312; H332; H315	10-25%
71302-91-5	Hydrocarbon resin ⚠ H300; H310	2.5-10%
100-51-6	Benzyl alcohol ⚠ H302; H332	2.5-10%
25154-52-3	nonylphenol ⚠ H361; ⚠ H314; ⚠ H400; H410; ⚠ H302	≤ 2.5%
107-98-2	1-methoxy-2-propanol ⚠ H226	≤ 2.5%

3 Hazards identification

- **Classification of the substance or mixture**



GHS02 flame

H226 Flammable liquid and vapour.



GHS06 skull and crossbones

H301 Toxic if swallowed.

H311 Toxic in contact with skin.



GHS09 environment

H411 Toxic to aquatic life with long lasting effects.

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GHS07

- H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H333 May be harmful if inhaled.

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



GHS02 GHS06 GHS09

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**
xylene, mixture of isomers
Hydrocarbon resin
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight > 700)
- **Hazard statements**
Flammable liquid and vapour.
Toxic if swallowed.
Toxic in contact with skin.
May be harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
Remove/Take off immediately all contaminated clothing.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

* 4 First aid measures

- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **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.

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

5 Firefighting measures

- **Suitable extinguishing agents:** *CO₂, sand, extinguishing powder. Do not use water.*
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **Protective equipment:** *Mouth respiratory protective device.*

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.
See Section 13 for disposal information.*

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:**

Quartz (SiO₂) (10-25%)

NES	0.1 mg/m ³ respirable dust
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xylene, mixture of isomers (10-25%)

NES	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 350 mg/m ³ , 80 ppm
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1-methoxy-2-propanol (≤2.5%)

NES	Short-term value: 553 mg/m ³ , 150 ppm Long-term value: 369 mg/m ³ , 100 ppm
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- **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.
- **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:	137 °C
· Flash point:	26 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	300 °C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.

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· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1.1 Vol %
Upper:	7.0 Vol %
· Vapour pressure at 20 °C:	6.7 hPa
· Density at 20 °C:	1.45748 g/cm ³
· 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:	10200 mPas
Kinematic:	Not determined.
· Solvent content:	
VOC (EC)	240.1 g/l

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.

11 Toxicological information

- **Acute toxicity:**

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

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

Oral	LD50	>2000 mg/kg (rat)
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Dermal	LD50	>2000 mg/kg (rat)
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xylene, mixture of isomers

Oral	LD50	4300 mg/kg (rat)
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Dermal	LD50	2000 mg/kg (rabbit)
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nonylphenol

Oral	LD50	1620 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish

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· **Transport/Additional information:**

· **ADG**· **Limited quantities (LQ)** 5L· **Transport category** 3· **Tunnel restriction code** D/E

· **UN "Model Regulation":** UN1263, PAINT, special provision 640E, ENVIRONMENTALLY HAZARDOUS, 3, III

15 Regulatory information

· **Australian Inventory of Chemical Substances**

14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
14808-60-7	Quartz (SiO ₂)
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
25036-25-3	reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight > 700)
1330-20-7	xylene, mixture of isomers
13463-67-7	titanium dioxide
100-51-6	Benzyl alcohol
25154-52-3	nonylphenol
107-98-2	1-methoxy-2-propanol
71-36-3	butan-1-ol
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane
	Organic derivative of a smectite clay
95-47-6	o-xylene
78-83-1	iso-butanol
108-65-6	2-methoxy-1-methylethyl acetate

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

1330-20-7	xylene, mixture of isomers	S6
50-00-0	formaldehyde	S2+APPENDIX C, S6+APPENDIX C
111-76-2	2-butoxyethanol	S6

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

· **Hazard pictograms**



GHS02

GHS06

GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

xylene, mixture of isomers

Hydrocarbon resin

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight > 700)

· **Hazard statements**

Flammable liquid and vapour.

Toxic if swallowed.

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*Toxic in contact with skin.
May be harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.*

· Precautionary statements

*IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
Remove/Take off immediately all contaminated clothing.
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
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent*

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