

Safety Data Sheet according to WHS Regulations

Vers.-Nr: 39



Revision: 23.05.2023

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- **Product identifier**
- **Trade name:** Transpoxy Masterbond BT 4.68 Pack A
- **Article number:** 468-a
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance/preparation:** Paint
- **Details of the supplier of the safety data sheet**
- **Manufacturer/supplier:**
Transocean Coatings
Wagon Paints Australia Pty Ltd
ABN: 76 412 791 772
Street address: 5 Stephenson Road, Bayswater North
VIC, 3153 Australia
Phone: +613 9729-1344
Fax: +613 9720 2719
- **Emergency telephone number:**
Medical Emergencies: 24 Hours
Poisons Information Centre (Australia): 131 126

2 Hazard(s) Identification

- **Classification of the substance or mixture**
Flam. Liq. 3 H226 Flammable liquid and vapour.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Label elements**
- **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**

GHS02 GHS07
- **Signal word** Warning
- **Hazard-determining components of labelling:**
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**
H226 Flammable liquid and vapour.
H315 Causes skin irritation.

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H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

- **Precautionary statements**

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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**

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

- **Dangerous components:**

14808-60-7	Quartz (SiO ₂)	10-25%
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	≥10-<25%
25036-25-3	reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weigh > 700) ⚠ Skin Sens. 1, H317	10-25%
1330-20-7	xylene, mixture of isomers ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	≥2.5-<10%
71-36-3	butan-1-ol ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	≥1-≤2.5%
107-98-2	1-methoxy-2-propanol ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	≤2.5%
64742-94-5	Solvent naphtha (petroleum), heavy arom. ⚠ Asp. Tox. 1, H304; ⚠ STOT SE 3, H336	≥0.25-<2.5%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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4 First Aid Measures

- **Description of 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.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **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).
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.

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- **Conditions for safe storage, including any incompatibilities**
- **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.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

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

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

14808-60-7 Quartz (SiO₂)

WES	Long-term value: 0.05 mg/m ³ respirable dust
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1330-20-7 xylene, mixture of isomers

WES	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 350 mg/m ³ , 80 ppm
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71-36-3 butan-1-ol

WES	Peak limitation: 152 mg/m ³ , 50 ppm Sk
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107-98-2 1-methoxy-2-propanol

WES	Short-term value: 553 mg/m ³ , 150 ppm Long-term value: 369 mg/m ³ , 100 ppm
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· **DNELs**

1330-20-7 xylene, mixture of isomers

	Dermal	long term DNEL	108 mg/kg/d (General Population) 180 mg/kg/d (Workers)
	Inhalative	long term DNEL	14.8 mg/m ³ (General Population) 77 mg/m ³ (Workers)

71-36-3 butan-1-ol

	Oral	long term DNEL	3125 mg/kg/d (General Population)
	Inhalative	long term DNEL	55 mg/m ³ (General Population) 310 mg/m ³ (Workers)

107-98-2 1-methoxy-2-propanol

	Oral	long term DNEL	3.3 mg/kg/d (General Population)
	Dermal	long term DNEL	18.1 mg/kg/d (General Population) 50.6 mg/kg/d (Workers)
	Inhalative	long term DNEL	43.9 mg/m ³ (General Population) 369 mg/m ³ (Workers)
		Acute DNEL	553.5 mg/m ³ (Workers)

· **PNECs**

1330-20-7 xylene, mixture of isomers

PNEC STP	6.58 mg/l (water treatment plant)
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PNEC aqua	327 ug/l (freshwater) 327 ug/l (marine water)
PNEC sediment	12.46 mg/kg (freshwater) 12.46 mg/kg (marine water)
PNEC soil	2.31 mg/kg (Soil)
71-36-3 butan-1-ol	
PNEC STP	2476 mg/l (water treatment plant) 2.25 mg/l (intermittent release)
PNEC aqua	8.2 ug/l (marine water)
PNEC sediment	0.178 mg/kg (freshwater) 0.0178 mg/kg (marine water)
PNEC soil	0.015 mg/kg (Soil)
107-98-2 1-methoxy-2-propanol	
PNEC STP	100 mg/l (water treatment plant)
PNEC aqua	10000 ug/l (freshwater)
PNEC sediment	41.6 mg/kg (freshwater) 4.17 mg/kg (marine water)
PNEC soil	2.47 mg/kg (Soil)

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **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.

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· **Eye protection:**



Tightly sealed goggles

9 Physical and Chemical Properties

· **Information on basic 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**

Melting point/freezing point: Undetermined.
 Initial boiling point and boiling range: 140 °C

· **Flash point:** 25 °C

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

· **Ignition temperature:** >300 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** 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:** 1.51851 g/cm³

· **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: 2000 mPas
 Kinematic: Not determined.

· **Solvent content:**

VOC (EC) 210.6 g/l

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· **Other information** No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

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

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

Oral	LD50	>5000 mg/kg (rat)
	LC50/ 96 hr	1.5 mg/l (fish)
Dermal	LD50	>2000 mg/kg (rat)

25036-25-3 reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight > 700)

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>4000 mg/l (rat)

1330-20-7 xylene, mixture of isomers

Oral	LD50	>2000 mg/kg (rat)
	LC50/ 96 hr (static)	2.6 mg/l (Rainbow trout (<i>Oncorhynchus mykiss</i>)) (OESO 203 or equivalent)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>20 mg/l (rat)

71-36-3 butan-1-ol

Oral	LD50	2292 mg/kg (rat)
	LC50/ 96 hr	1376 mg/l (fish)
Dermal	LD50	3400 mg/kg (rabbit)
Inhalative	LC50/4 h	17.76 mg/l (rat)

107-98-2 1-methoxy-2-propanol

Oral	LD50	4016 mg/kg (rat)
	LC50/ 96 hr	6812 mg/l (fish)
Dermal	LD50	2000 mg/kg (rabbit)

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Inhalative	LC50/4 h	6 mg/l (rat)
64742-94-5 Solvent naphtha (petroleum), heavy arom.		
Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

• **Primary irritant effect:**

• **Skin corrosion/irritation** Irritant to skin and mucous membranes.

• **Serious eye damage/irritation** Irritating effect.

• **Respiratory or skin sensitisation** Sensitisation possible through skin contact.

• **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological Information

• **Toxicity**

• **Aquatic toxicity:**

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

EC 50 (48 hr) | 1.7 mg/l (daphnia)

EC 50 (72 hr) | 9.4 mg/l (Algae)

1330-20-7 xylene, mixture of isomers

EC 50 (48 hr) | 1-10 mg/l (daphnia)

EC 50 (72 hr) | 1-10 mg/l (Algae)

71-36-3 butan-1-ol

EC 50 (48 hr) | 1328 mg/l (daphnia)

107-98-2 1-methoxy-2-propanol

EC 50 (48 hr) | 23300 mg/l (daphnia)

• **Persistence and degradability** No further relevant information available.

• **Behaviour in environmental systems:**

• **Bioaccumulative potential** No further relevant information available.

• **Mobility in soil** No further relevant information available.

• **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

• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• **Other adverse effects** No further relevant information available.

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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

- | | |
|--|--|
| <ul style="list-style-type: none"> · UN-Number · ADG, ADN, IMDG · IATA | <p style="margin-left: 20px;">Void
UN1263</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · ADG, ADN, IMDG · IATA | <p style="margin-left: 20px;">Void
PAINT</p> |
| <ul style="list-style-type: none"> · Transport hazard class(es) · ADG, ADN, IMDG · Class | <p style="margin-left: 20px;">Void</p> |
| <ul style="list-style-type: none"> · IATA | |
|  | |
| <ul style="list-style-type: none"> · Class · Label | <p style="margin-left: 20px;">3 Flammable liquids.
3</p> |
| <ul style="list-style-type: none"> · Packing group · ADG, IMDG · IATA | <p style="margin-left: 20px;">Void
III</p> |
| <ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: | <p style="margin-left: 20px;">No</p> |
| <ul style="list-style-type: none"> · Special precautions for user | <p style="margin-left: 20px;">Not applicable.</p> |
| <ul style="list-style-type: none"> · Transport in bulk according to Annex II of Marpol and the IBC Code | <p style="margin-left: 20px;">Not applicable.</p> |
| <ul style="list-style-type: none"> · UN "Model Regulation": | <p style="margin-left: 20px;">Void</p> |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **Australian Inventory of Industrial Chemicals**

14808-60-7	Quartz (SiO ₂)
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14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
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
71-36-3	butan-1-ol
107-98-2	1-methoxy-2-propanol
64742-94-5	Solvent naphtha (petroleum), heavy arom.
1317-61-9	Pigment black 11
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane
	Derivative of an organically modified hectorite
64742-88-7	Hydrocarbons, C ₉ -C ₁₂ , n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
	Xylenes
108-65-6	2-methoxy-1-methylethyl acetate
78-83-1	iso-butanol
123-86-4	n-butyl acetate
29354-75-4	Silyl copolymer
50-00-0	formaldehyde
7397-62-8	butyl glycollate
111-76-2	2-butoxyethanol
556-67-2	octamethylcyclotetrasiloxane

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

1330-20-7	xylene, mixture of isomers	S6
71-36-3	butan-1-ol	S5, S6
50-00-0	formaldehyde	S2, S6, S10
111-76-2	2-butoxyethanol	S6

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Warning

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

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**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

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H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

• **Precautionary statements**

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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Directive 2012/18/EU**

• **Named dangerous substances - ANNEX I** None of the ingredients is listed.

• **Seveso category** P5c FLAMMABLE LIQUIDS

• **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5000 t

• **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50000 t

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

• **Contact:**

• **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 Organisation

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

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - dermal – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

• *** Data compared to the previous version altered.**