

Safety data sheet according to WHS Regulations

Printing date 21.03.2016

Vers.-Nr: 44

Revision: 21.03.2016

Hazardous according to criteria of Australian Safety and Compensation Council

1 Identification

- **Product identifier**
- **Trade name: Transpoxy Masterbond 4.67 N - Pack B**
- **Article number:** 467b-5
- **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:** (03) 9729 1344 from 8.00 am to 4.30 pm.

2 Hazard Identification

- **Classification of the substance or mixture**
Flam. Liq. 3 H226 Flammable liquid and vapour.
Acute Tox. 4 H302 Harmful if swallowed.
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- **Label elements**

- **GHS label elements**

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

- **Hazard pictograms**



GHS02 GHS05 GHS07 GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Formaldehyde, polymer with benzeneamine, hydrogenated.
butan-1-ol
Phenol, methylstyrenated
4,4'-methylenebis(cyclohexylamine)
- **Hazard statements**
Flammable liquid and vapour.
Harmful if swallowed.

(Contd. on page 2)

Safety data sheet according to WHS Regulations

Printing date 21.03.2016

Vers.-Nr: 44

Revision: 21.03.2016

Trade name: Transpoxy Masterbond 4.67 N - Pack B

(Contd. of page 1)

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

• **Precautionary statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

IF ON SKIN (or hair): 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/doctor.

Store locked up.

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:**

135108-88-2	Formaldehyde, polymer with benzeneamine, hydrogenated. ⚠ STOT RE 2, H373; ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	25-50%
68512-30-1	Phenol, methylstyrenated ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	25-50%
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	10-25%
1761-71-3	4,4'-methylenebis(cyclohexylamine) ⚠ STOT RE 2, H373; ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	2,5-10%
112-24-3	3,6-diazaoctanethylenediamin ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	2,5-10%

• **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First Aid Measures

• **Description of first aid measures**

• **General information:**

Immediately remove any clothing soiled by the product.

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.

(Contd. on page 3)

Safety data sheet according to WHS Regulations

Printing date 21.03.2016

Vers.-Nr: 44

Revision: 21.03.2016

Trade name: Transpoxy Masterbond 4.67 N - Pack B

(Contd. of page 2)

- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Call for a doctor immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **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.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **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).
Use neutralising agent.
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.

(Contd. on page 4)

Safety data sheet according to WHS Regulations

Printing date 21.03.2016

Vers.-Nr: 44

Revision: 21.03.2016

Trade name: Transpoxy Masterbond 4.67 N - Pack B

(Contd. of page 3)

- **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:**

71-36-3 butan-1-ol

NES	Peak limitation: 152 mg/m ³ , 50 ppm
Sk	

- **DNELs**

135108-88-2 Formaldehyde, polymer with benzeneamine, hydrogenated.

Dermal	long term DNEL	2 mg/kg/d (Workers)
Inhalative	long term DNEL	0.2 mg/m ³ (Workers)
	Acute DNEL	2 mg/m ³ (Workers)

68512-30-1 Phenol, methylstyrenated

Oral	long term DNEL	4 mg/kg/d (General Population)
Dermal	long term DNEL	8 mg/kg/d (General Population) 16.4 mg/kg/d (Workers)
Inhalative	long term DNEL	28 mg/m ³ (General Population) 57 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)

- **PNECs**

135108-88-2 Formaldehyde, polymer with benzeneamine, hydrogenated.

PNEC STP	1.9 mg/l (water treatment plant)
PNEC aqua	15 ug/l (freshwater) 1.5 ug/l (marine water)
PNEC sediment	15 mg/kg (freshwater) 1.5 mg/kg (marine water)
PNEC soil	1.8 mg/kg (soi)

68512-30-1 Phenol, methylstyrenated

PNEC STP	2.4 mg/l (-)
PNEC aqua	14 ug/l (freshwater) 140 ug/l (intermittent release) 1.4 ug/l (marine water)

(Contd. on page 5)

Safety data sheet according to WHS Regulations

Printing date 21.03.2016

Vers.-Nr: 44

Revision: 21.03.2016

Trade name: Transpoxy Masterbond 4.67 N - Pack B

(Contd. of page 4)

PNEC sediment	52.9 mg/kg (freshwater) 5.3 mg/kg (marine water)
PNEC soil	10.5 mg/kg (-)
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)

- **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.
- **Eye protection:**



Tightly sealed goggles

AU

(Contd. on page 6)

Safety data sheet

according to WHS Regulations

Printing date 21.03.2016

Vers.-Nr: 44

Revision: 21.03.2016

Trade name: Transpoxy Masterbond 4.67 N - Pack B

(Contd. of page 5)

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**

Boiling point/Boiling range:	65 °C
------------------------------	-------

- **Flash point:** 44 °C

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

- **Ignition temperature:** 340 °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:	1.5 Vol %
Upper:	9.4 Vol %

- **Vapour pressure at 20 °C:** 6.7 hPa

- **Density at 20 °C:** 0.97998 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:	300 mPas
Kinematic:	Not determined.

- **Solvent content:**

VOC (EC)	137.2 g/l
----------	-----------

- **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.

(Contd. on page 7)

Safety data sheet

according to WHS Regulations

Printing date 21.03.2016

Vers.-Nr: 44

Revision: 21.03.2016

Trade name: Transpoxy Masterbond 4.67 N - Pack B

(Contd. of page 6)

- **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:**

135108-88-2 Formaldehyde, polymer with benzeneamine, hydrogenated.

Oral	LD50	368 mg/kg (rat)
	LC50/ 96 hr	63 mg/l (fish)
Dermal	LD50	>1000 mg/kg (rab)

68512-30-1 Phenol, methylstyrenated

Oral	LD50	>2000 mg/kg (rat) (OECD 423)
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)

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)

1761-71-3 4,4'-methylenebis(cyclohexylamine)

Oral	LD50	>670 mg/kg (rat)
	LC50/ 96 hr	>100 mg/l (fish)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Caustic effect on skin and mucous membranes.
- **Serious eye damage/irritation** Strong caustic 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:

Harmful
Corrosive
Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

135108-88-2 Formaldehyde, polymer with benzeneamine, hydrogenated.

EC 50 (48 hr)	18.6 mg/l (daphnia)
EC 50 (72 hr)	43.94 mg/l (Algae)

(Contd. on page 8)

Safety data sheet according to WHS Regulations

Printing date 21.03.2016

Vers.-Nr: 44

Revision: 21.03.2016

Trade name: Transpoxy Masterbond 4.67 N - Pack B

(Contd. of page 7)

68512-30-1 Phenol, methylstyrenated

EC 50 (48 hr)	14-51 mg/l (daphnia) (OECD TG 202)
EC 50 (72 hr)	15 mg/l (Algae) (OECD TG 201)
LL50 (96 hr)	25.8 mg/l (fish) (OECD TG 203)

71-36-3 butan-1-ol

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

1761-71-3 4,4'-methylenebis(cyclohexylamine)

EC 50 (48 hr)	9.24 mg/l (daphnia)
EC 50 (72 hr)	140 - 200 mg/l (Algae)

- **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 3 (German Regulation) (Self-assessment): extremely hazardous for water
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 Must not reach sewage water or drainage ditch undiluted or unneutralised.
 Danger to drinking water if even extremely 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.

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, IMDG, IATA | <p style="margin: 0;">UN3470</p> |
| <ul style="list-style-type: none"> • UN proper shipping name • ADG • IMDG • IATA | <p style="margin: 0;">3470 PAINT, CORROSIVE, FLAMMABLE
 PAINT, CORROSIVE, FLAMMABLE
 Paint, corrosive, flammable</p> |

(Contd. on page 9)

Safety data sheet according to WHS Regulations

Printing date 21.03.2016

Vers.-Nr: 44

Revision: 21.03.2016

Trade name: Transpoxy Masterbond 4.67 N - Pack B

(Contd. of page 8)

· **Transport hazard class(es)**

· **ADG**



· **Class** 8 Corrosive substances.
· **Label** 8+3

· **IMDG**



· **Class** 8 Corrosive substances.
· **Label** 8/3

· **IATA**



· **Class** 8 Corrosive substances.
· **Label** 8 (3)

· **Packing group**
· **ADG, IMDG, IATA**

II

· **Environmental hazards:**
· **Marine pollutant:**

No

· **Special precautions for user** Warning: Corrosive substances.
· **Danger code (Kemler):** 83
· **EMS Number:** F-E,S-C
· **Segregation groups** Alkalis
· **Stowage Category** B
· **Stowage Code** SW2 Clear of living quarters.

· **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADG**

· **Limited quantities (LQ)**
· **Excepted quantities (EQ)**

1L
Code: E2

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· **Transport category**
· **Tunnel restriction code**

2
D/E

(Contd. on page 10)

Safety data sheet according to WHS Regulations

Printing date 21.03.2016

Vers.-Nr: 44

Revision: 21.03.2016

Trade name: Transpoxy Masterbond 4.67 N - Pack B

(Contd. of page 9)

- | | |
|--|---|
| <ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) | <p>1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml</p> |
| <ul style="list-style-type: none"> · UN "Model Regulation": | <p>UN 3470 PAINT, CORROSIVE, FLAMMABLE, 8 (3), II</p> |

15 Regulatory information

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

- **Australian Inventory of Chemical Substances**

135108-88-2	Formaldehyde, polymer with benzeneamine, hydrogenated.
68512-30-1	Phenol, methylstyrenated
71-36-3	butan-1-ol
1761-71-3	4,4'-methylenebis(cyclohexylamine)
112-24-3	3,6-diazaoctanethylenediamin

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

None of the ingredients is listed.

- **GHS label elements**

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

- **Hazard pictograms**



GHS02 GHS05 GHS07 GHS08

- **Signal word** Danger

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

Formaldehyde, polymer with benzeneamine, hydrogenated.

butan-1-ol

Phenol, methylstyrenated

4,4'-methylenebis(cyclohexylamine)

- **Hazard statements**

Flammable liquid and vapour.

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

IF ON SKIN (or hair): 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.

(Contd. on page 11)

Safety data sheet according to WHS Regulations

Printing date 21.03.2016

Vers.-Nr: 44

Revision: 21.03.2016

Trade name: Transpoxy Masterbond 4.67 N - Pack B

(Contd. of page 10)

Immediately call a POISON CENTER/doctor.

Store locked up.

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** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 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.

- **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, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

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