



# Bondaglass-Voss Ltd

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**BONDAMARINE WOOD SEAL**

**BONDAMARINE G4 – BONDASEAL CLEAR**

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**G4 DAMP SEAL – G4 POND SEAL**

NA – Not Applicable

ND – Not Determined

## HEALTH AND SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

CHEMICAL CHARACTERISTICS

Polyurethane prepolymer (MDI) based. Approx 55% solution in solvent naphtha.

SUPPLIER

Bondaglass-Voss Ltd

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME

4,4' Diphenylmethane – diisocyanate, isomeres + homologues + mixture of these. Percentages in mix - approx 5.8%

### 3. HAZARDS IDENTIFICATION

This information only applies to the material in its liquid state.

Hazard symbol XN Harmful

R-Phrases 10-20-36/37/38-42/43-51/53-65  
66/47

See Section 15

### 4. FIRST AID MEASURES

SKIN

In all cases of doubt seek medical attention

EYES

Wipe off and wash with soap and water.

Rinse thoroughly for 10 mins and seek medical attention.

INHALATION

In case of irritation of the respiratory tract move into fresh air and seek medical attention.

INGESTION

Seek medical attention

### 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Powder, CO2, foam, water spray

SPECIAL EXPOSURE HAZARDS

Formulation of carbon monoxide, nitrogen oxide, isocyanate and traces of hydrogen cyanide is possible

PROTECTIVE EQUIPMENT

Self contained breathing mask

- |   |   |
|---|---|
| 6. ACCIDENTAL RELEASE MEASURES<br>PERSONAL PROTECTION<br><br>ENVIRONMENTAL PRECAUTION<br>METHODS OF CLEAN UP  | Avoid contact with skin or eyes. Do not breathe vapour<br>Do not allow into drains, water courses<br>Remove mechanically cover with wet absorbent materials. After approx one hour transfer to waste container, do not seal, leave for several days.<br>Dispose of in accordance with regulations |
| 7. HANDLING AND STORAGE<br>HANDLING PRECAUTIONS<br><br>STORAGE PRECAUTIONS  | Ensure adequate ventilation. Avoid contact with skin and eyes<br>Keep container closed in cool dry conditions. Store between 10°C - 50°C  |
| 8. EXPOSURE CONTROL/PERSONAL PROTECTION<br>EXPOSURE MEASURES<br>PERSONAL PROTECTION<br>RESPIRATORY<br><br>HANDS<br>EYES<br>SKIN<br>INDUSTRIAL HYGIENE   | Ensure adequate ventilation<br><br>In the absence of adequate ventilation use filter mask. Air fed mask required when spraying<br>Gloves<br>Safety glasses<br>Suitable clothing<br>Keep away from food stuffs, drinks, wash hands   |
| 9. PHYSICAL AND CHEMICAL PROPERTIES<br>APPEARANCE<br>ODOUR<br>DENSITY<br>VAPOUR PRESSURE<br>VISCOSITY<br>SOLUBILITY<br>FLASH POINT<br>IGNITION TEMPERATURE<br>EXPLOSIVE LIMITS (AIR)<br><br>THERMAL DECOMPOSITION | Liquid, dark brown<br>Earthy, musty<br>0.99 (22°C)<br>0.00001 mbar (20°C)<br>Approx 14 secs – cup 6 mm<br>Insoluble<br>42°C<br>> 400°C<br>Lower 0.7%<br>Upper 7.5%<br>Approx 260°C or higher  |
| 10. STABILITY AND REACTIVITY<br>CHEMICAL STABILITY<br>MATERIALS TO AVOID<br>HAZARDOUS DECOMPOSITION<br>PRODUCTS   | Stable under correct storage conditions<br>Amines, alcohols<br><br>Carbon monoxide, Nitrogen oxide  |

## 11. TOXICOLOGICAL INFORMATION

## INHALATION

Can cause dizziness, headache, nausea, irritation of the respiratory tract

## EYES

Possible irritation

## INGESTION

Irritation of stomach

## SENSITISATION

May cause sensitisation particularly in hyper – sensitive persons

## OTHER INFORMATION

The vapour pressure of the isocyanate is so low that it does not constitute a hazard when applied by brush/roller

## Solvent Naptha

Oral LD 50 > 6800 mg/mk (RAT)

Dermal LD 50 > 3400 mg/kg (RAB)

Inhalative LC 50/4/2 > 10.2 mg/l (RAT)

## Polyurethane Prepolymer (MDI)

L D 50 Oral, RAT: > 15000 mg/kg

L C 50 Inhalation, CA 490 mg as aerosol/m<sup>3</sup> 4 of explosive.

## 12. ECOLOGICAL INFORMATION

Do not allow to escape into waters, waste water or soil. Slightly hazardous to water (WGK):1. The product reacts with water forming CO<sub>2</sub> and a solid insoluble product.

## 13. DISPOSAL CONSIDERATIONS

## DISPOSAL

Dispose of in accordance with National Regulations

May be incinerated observing regulations

## 14. TRANSPORT INFORMATION

## UN NO.

1866

## PACKING GROUP

Class III

## ADR/RID

Class 3

## ICAO/IATA

Class 3

## M.F.A.G.

310

## EMS

3 - 07

## GGVS/GGVE

3

## SHIPPING NAME

Resin Solution

15. REGULATORY INFORMATION  
this information only applies to the  
material in its liquid state

Symbol XN harmful – N Dangerous for the  
environment

CONTAINS

4,4' Diphenylmethane diisocyanate, isomeres and  
homologues

R-PHRASES

R10 Flammable

R20/21 Harmful by inhalation and in contact with  
skin

R36/37/38 Irritating to eyes, respiratory system and  
skin

R42/43 May cause sensitisation by inhalation

R51/53 Toxic to aquatic organs. May cause long term  
adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed

R66 repeated explosive may cause skin dryness &  
cracking

R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

S16 Keep away from sources of ignition – No smoking

S23 Do not breathe fumes

S24/25 Avoid contact with skin and eyes

S26 In case of contact with eyes, rinse immediately with  
plenty of water and seek medical advice

S43 In case of fire, use sand, carbon dioxide or powered  
extinguishing agent. Never use water.

S51 Use only in well ventilated areas

S62 If swallowed, do not induce vomiting: seek medical  
advice immediately and show this container or label.

16. OTHER INFORMATION

These materials are for use by person cognisant with the use of these materials.

MAIN REFERENCES:

**Please note – this Material Safety Data Sheet should be read in conjunction with the technical  
information sheet for the product.**

The information contained in this data sheet is, to the best of our knowledge, true and accurate, but any  
recommendations or suggestions which may be made are without guarantee, since the conditions of use are  
beyond our control.

July 2004