



Bondaglass-Voss Ltd

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**G4 DAMP SEAL – G4 POND SEAL
BONDAMARINE WOOD SEAL
BONDAMARINE G4 – BONDASEAL CLEAR**

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	
PERSONAL PROTECTION	Avoid contact with skin or eyes. Do not breathe vapour
ENVIRONMENTAL PRECAUTION	Do not allow into drains, water courses
METHODS OF CLEAN UP	Remove mechanically cover with wet absorbent materials. After approx one hour transfer to waste container, do not seal, leave for several days. Dispose of in accordance with regulations
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7. HANDLING AND STORAGE	
HANDLING PRECAUTIONS	Ensure adequate ventilation. Avoid contact with skin and eyes
STORAGE PRECAUTIONS	Keep container closed in cool dry conditions. Store between 10°C - 50°C
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8. EXPOSURE CONTROL/PERSONAL PROTECTION	
EXPOSURE MEASURES	Ensure adequate ventilation
PERSONAL PROTECTION	
RESPIRATORY	In the absence of adequate ventilation use filter mask. Air fed mask required when spraying
HANDS	Gloves
EYES	Safety glasses
SKIN	Suitable clothing
INDUSTRIAL HYGIENE	Keep away from food stuffs, drinks, wash hands
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9. PHYSICAL AND CHEMICAL PROPERTIES	
APPEARANCE	Liquid, dark brown
ODOUR	Earthy, musty
DENSITY	0.99 (22°C)
VAPOUR PRESSURE	0.00001 mbar (20°C)
VISCOSITY	Approx 14 secs – cup 6 mm
SOLUBILITY	Insoluble
FLASH POINT	42°C
IGNITION TEMPERATURE	> 400°C
EXPLOSIVE LIMITS (AIR)	Lower 0.7% Upper 7.5%
THERMAL DECOMPOSITION	Approx 260°C or higher
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10. STABILITY AND REACTIVITY	
CHEMICAL STABILITY	Stable under correct storage conditions
MATERIALS TO AVOID	Amines, alcohols
HAZARDOUS DECOMPOSITION PRODUCTS	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/m³ 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 CO₂ 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 – 31C

ICAO/IATA

Class 3

M.F.A.G.

310

EMS

3 - 07

GGVS/GGVE

3 – 31C

DECLARATION FOR SHIPMENT

Petroleum distillates N.O.S. Solvent naphtha – light arom.

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

SAFETY PHRASES

R67 Vapours may cause drowsiness and dizziness.
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.

January 2003