

SEALANT

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name Hydroswell Sealant

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance Adhesive and sealant

1.3 Details of the supplier of the safety data sheet

Company identification SMR Projects Ltd. SMR House, Beaumont Close, Banbury OX16 1TG
Telephone 01295 279747
Web address www.smrhydroswell.co.uk

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification of the substance or mixture

EC No 1272/2008 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

Directive 67/548/EEC Dangerous – R42: May cause sensitisation by inhalation

Directive 1999/45/EC

Classification system The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label Elements

Labelling according to Regulation (EC) 1272/2008 (CLP) The product is classified and labelled according to the CLP regulation.

Hazard pictogram  GHS08


Signal word Danger

Hazard-determining components of labelling Methylene-diphenyl diisocyanate

Hazard statements H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children
P284 In case of inadequate ventilation, wear respiratory protection
P304 + P340 If inhaled, remove person to fresh air and keep comfortable for breathing
P342 + P311 If experiencing respiratory symptoms, call a doctor
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other information - Allergic reactions can occur for people sensitive to diisocyanates
- People having asthma, eczema or skin problems, should avoid any contact (including skin contact) with the product
- Don't use the product without ventilation unless wearing a protective mask 1 with gas filter (type A1)

Labelling according to directive 67/548/EEC &  Harmful (Xn) – contains methylenediphenyl diisocyanate

1999/45/EEC (DSD/DPD)

R42: May cause sensitisation by inhalation
S02: Keep out of reach of children
S22: Do not breathe dust
S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)
S63: In case of accident by inhalation: remove casualty to fresh air and keep at rest
Additional recommendations:
- Allergic reactions can occur for people sensitive to diisocyanates
- People having asthma, eczema or skin problems, should avoid any contact (including skin contact) with the product
- Don't use the product without ventilation, unless wearing a protective mask with gas filter (type A1)

2.3 Other hazards

CLP Slightly irritating to the eyes

DSD/DPD Slightly irritating to the eyes

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Chemical Characterisation: Mixtures

Substance (REACH registration nr.)	CAS EINECS	Conc.	DSD/DPD	CLP
Hydrocarbons, C10-12, iso-alkanes, <2% aromatic components (01-2119471991-29)		1% - 10%	Xn; R65 R10 R66 N; R51-53	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 2; H411
Methylenediphenyl diisocyanate	26447-40-5 247-714-0	0.1% - 1%	Carc. Cat. 3; R40 Xn; R20 -48/20 Xi; R36/37/38 R42/43	Carc. 2; H351 Acute Tox. 4; H332 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317
Propylene carbonate (01-2119537232-48)	108-32-7 203-572-1	0.1% - 3%	Xi; R36	Eye Irrit. 2; H319
Additional information	For the wording of the listed risk phrases refer to section "OTHER INFORMATION"			

4. FIRST AID MEASURES

4.1 Description of first aid measures

General If you feel unwell, seek medical advice.
After inhalation Supply fresh air; consult doctor in case of complaints.
After skin contact: Wash with plenty of water. In case of persisting irritation seek medical advice (show label if possible).
After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing: Drink plenty of water. In case of complaints seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

After eye contact: Slight irritation and redness of the eyes.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media are CO2, powder or water spray.

5.2 Special hazards arising from the substance or mixture

Formation of toxic and corrosive gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Wear self-contained respiratory protective device.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing and ensure adequate ventilation

6.2 Environmental precautions

Do not allow to enter sewers/surface or ground water

6.3 Methods and material for containment and cleaning up

Pick up mechanically. Dispose contaminated material as waste according to item 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from open fire/heat. Keep the packaging closed. Handle with care – avoid all contact

7.2 Conditions for safe storage

Store product in a cool, dry and well-ventilated area, only in tightly closed original container

7.3 Specific end use(s)

No further relevant information available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits for professional use

Isocyanates, all (as –NCO) except methyl isocyanate	Short term limit	0.07 mg/m ³	Workplace exposure limit (EH40/2005)
	Time weighted average 8h	0.02 mg/m ³	Workplace exposure limit (EH40/2005)

DNEL - employers

Methylenediphenyl diisocyanate limits	Type	Value
	Systematic effects after long term inhalation	0.05 mg/m ³
	Acute systematic effects after inhalation	0.1 mg/m ³
	Local effects after long term inhalation	0.05 mg/m ³
	Acute local effects after inhalation	0.1 mg/m ³
	Acute systematic effects after skin contact	50 mg/kg bw/day
	Acute local effects after skin contact	28.7 mg/cm ²

DNEL - Public

Methylenediphenyl diisocyanate limits	Type	Value
	Systematic effects after long term inhalation	0.025 mg/m ³

	Acute systematic effects after inhalation	0.05 mg/m ³
	Local effects after long term inhalation	0.025 mg/m ³
	Acute local effects after inhalation	0.05 mg/m ³
	Acute systematic effects after skin contact	25 mg/kg bw/day
	Acute local effects after skin contact	17.2 mg/cm ²
	Acute systematic effects after swallowing	20 mg/kg bw/day

PNEC

Methylenediphenyl diisocyanate limits	Environment	Value
	Fresh water	1 mg/ml
	Salt water	0.1 mg/ml
	Aqua (intermittent discharges)	10 mg/ml
	STP	1 mg/ml
	Soil	1 mg/kg dry weight

Exposure Controls

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals. Do not eat, drink, smoke or sniff while working.

Respiratory protection

Not necessary if room is well ventilated, otherwise gas mask with filter type A is recommended.

Hand protection

Glove material has to impermeable and resistant to the product.

Eye protection

Goggles recommended during use

Body protection

Light weight protective clothing recommended

9. PHYSICAL AND CHEMICAL PROPERTIES (typical values)

9.1 Information on basic physical and chemical properties

Appearance	Pasty
Odour	Undetermined
Colour	White
Explosion limits	Undetermined
Flammability	Noncombustible
Viscosity	Undetermined
Melting point	Undetermined
Boiling point	Undetermined
Self-Ignition	Undetermined
Flash point	Undetermined
Solubility	Undetermined
Relative density	1.4 g/cm ³ @ 20 °C

9.2 Other information

No further information available.

10. STABILITY AND REACTIVITY

10.2 Chemical stability

No decomposition if used according to specifications

10.3 Possibility of hazardous reactions

No dangerous reactions known

10.4 Conditions to avoid

Keep away from open fire/heat. Keep the packaging well closed.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products Upon combustion: formation of toxic and corrosive gasses/vapours (HCl, CO/CO₂) and small quantities sulfuroxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity-dermal Classified as non-irritating
Acute toxicity-eyes Classified as non-irritating
Further information When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us. The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Aquatic toxicity Classified as non-toxic
12.2 Persistence and degradability Not easily biodegradable
12.3 Bioaccumulative potential No relevant information available
12.4 Mobility in soil Contains components that can adhere to the soil.
12.5 Results of PBT and vPvB assessment
PBT Not applicable
vPvB Not applicable
12.6 Other adverse effects No further relevant information available

13. DISPOSAL INFORMATION

13.1 Waste Disposal Information

Product disposal Can be disposed of with domestic waste or incinerated with domestic waste

European waste catalogue:
08 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09
15 01 01 Paper and cardboard packaging
15 01 10 Plastic packaging

14. TRANSPORT INFORMATION

14.1 UN number Void
- ADR, ADN, IMDG, IATA
14.2 UN proper shipping name Void
- ADR, ADN, IMDG, IATA
14.3 Transport hazard class(es) Void
- ADR, ADN, IMDG, IATA
- Class
14.4 Packaging group Void
- ADR, IMDG, IATA
14.5 Environmental hazards No
- marine pollutant
14.6 Special precautions for user Not applicable
14.7 Transport in bulk acc. to Annex II of MARPOL73/78 and the IBC code UN "Model Regulation" ---

15. REGULATORY INFORMATION

15. Safety, health and environmental regulations/legislation specific for the substance or mixture
No Further relevant information available

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out

16. OTHER INFORMATION

R10 Flammable
R20 Harmful by inhalation
R36 Irritating to eyes

R36/37/38	Irritating to eyes, respiratory system and skin
R40	Limited evidence of a carcinogenic effect
R42	May cause sensitisation by inhalation
R42/43	May cause sensitization by inhalation and skin contact
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R51	Toxic to aquatic organisms
R53	May cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long-lasting effects
DSD	Dangerous Substance Directive
DPD	Dangerous Preparation Directive

CLP (EU-GHS)