

Safety Data Sheet according to (EC) No 1907/2006

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sds no. : 180161
V004.2

OMNISEAL 1K PUR WHITE 310ML

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

OMNISEAL 1K PUR WHITE 310ML - 865241

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

Intended use:

1-Component sealant

1.3. Details of the supplier of the safety data sheet

Quest Consumables Limited

Stock House, Seymour Road, Nuneaton, Warwickshire

CV11 4LB

Great Britain

Phone: +44 (0)24 76 322126

Fax-no.: +44 (0)24 76 322117

info@questconsumables.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

No data available.

Classification (DPD):

Sensitizing

R42 May cause sensitization by inhalation.

2.2. Label elements

Label elements (CLP):

No data available.

Label elements (DPD):

Xn - Harmful



Risk phrases:

R42 May cause sensitization by inhalation.

Safety phrases:

S23 Do not breathe vapour.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S28 After contact with skin, wash immediately with plenty of water.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Additional labeling:

Contains isocyanates. See information supplied by the manufacturer.

Contains:

4,4'- methylenediphenyl diisocyanate,

Methylenediphenyl diisocyanate

2.3. Other hazards

Persons suffering from allergic reactions to isocyanates should avoid contact with the product.

SECTION 3: Composition/information on ingredients

General chemical description:

1-Component moisture-curing sealant

Base substances of preparation:

PUR polymer

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Xylene - mixture of isomeres 1330-20-7	215-535-7 01-2119486136-34 01-2119488216-32	< 5 %	Aspiration hazard 1 H304 Acute toxicity 4; Inhalation H332 Acute toxicity 4; Dermal H312 Skin irritation 2 H315 Flammable liquids 3 H226
4,4'- methylenediphenyl diisocyanate 101-68-8	202-966-0 01-2119457014-47	< 0,5 %	Carcinogenicity 2 H351 Acute toxicity 4; Inhalation H332 Specific target organ toxicity - repeated exposure 2 H373 Serious eye irritation 2 H319 Specific target organ toxicity - single exposure 3 H335 Skin irritation 2 H315 Respiratory sensitizer 1 H334 Skin sensitizer 1 H317
Methylenediphenyl diisocyanate 26447-40-5	247-714-0	< 0,5 %	Acute toxicity 4; Inhalation H332 Skin irritation 2 H315 Serious eye irritation 2 H319 Carcinogenicity 2 H351 Specific target organ toxicity - repeated exposure 2 H373 Specific target organ toxicity - single exposure 3 H335 Respiratory sensitizer 1 H334 Skin sensitizer 1 H317
Isoparaffins C9-12 90622-57-4	292-459-0 01-2119472146-39	< 10 %	Dermal Flammable liquids 3 H226 Aspiration hazard 1; Oral H304

**For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.**

Declaration of ingredients according to DPD (EC) No 1999/45:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Xylene - mixture of isomeres 1330-20-7	215-535-7 01-2119486136-34 01-2119488216-32	< 5 %	Xn - Harmful; R65 R10 Xi - Irritant; R38 Xn - Harmful; R20/21
4,4'- methylenediphenyl diisocyanate 101-68-8	202-966-0 01-2119457014-47	< 0,5 %	Xi - Irritant; R36/37/38 R42/43 carcinogenic, category 3; R40 Xn - Harmful; R20, R48/20
Methylenediphenyl diisocyanate 26447-40-5	247-714-0	< 0,5 %	Xi - Irritant; R36/37/38 carcinogenic, category 3; R40 Xn - Harmful; R20, R48/20 R42/43
Isoparaffins C9-12 90622-57-4	292-459-0 01-2119472146-39	< 10 %	R10 Xn - Harmful; R65, R66

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.
Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation:**

Fresh air, oxygen supply, warmth; seek specialist medical attention.
Delayed effects possible after inhalation.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

May cause sensitization by inhalation.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media:**

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In case of fire toxic gases can be released.

5.3. Advice for firefighters

Wear protective equipment.
Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.
Avoid contact with skin and eyes.
Keep unprotected persons away.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically.
Dispose of contaminated material as waste according to Chapter 13.

6.4. Reference to other sections

See advice in chapter 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Hygiene measures:

Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container protected against moisture.
Ensure good ventilation/extraction.
Store in a cool, dry place.
Container must be made airtight after use.
Storage at 15 to 25°C is recommended.

7.3. Specific end use(s)

1-Component sealant

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Valid for

Great Britain

Basis

UK EH40 WELs

Ingredient	ppm	mg/m3	Type	Category	Remarks
XYLENE, O-, M-, P- OR MIXED ISOMERS 1330-20-7	50	220	Time Weighted Average (TWA):		EH40 WEL
XYLENE, O-, M-, P- OR MIXED ISOMERS 1330-20-7	100	441	Short Term Exposure Limit (STEL):		EH40 WEL
XYLENE, O-, M-, P- OR MIXED ISOMERS 1330-20-7			Skin designation:	Can be absorbed through the skin.	EH40 WEL
XYLENE, MIXED ISOMERS, PURE 1330-20-7	50	221	Time Weighted Average (TWA):	Indicative	ECTLV
XYLENE, MIXED ISOMERS, PURE 1330-20-7	100	442	Short Term Exposure Limit (STEL):	Indicative	ECTLV
ISOCYANATES, ALL (AS -NCO) 101-68-8		0,07	Short Term Exposure Limit (STEL):		EH40 WEL
ISOCYANATES, ALL (AS -NCO) 101-68-8		0,02	Time Weighted Average (TWA):		EH40 WEL
DIISONONYL PHTHALATE 28553-12-0		5	Time Weighted Average (TWA):		EH40 WEL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
4,4'-methylenediphenyl diisocyanate 101-68-8	aqua (freshwater)					> 1 mg/L	
4,4'-methylenediphenyl diisocyanate 101-68-8	aqua (marine water)					> 0,1 mg/L	
4,4'-methylenediphenyl diisocyanate 101-68-8	soil				> 1 mg/kg		
4,4'-methylenediphenyl diisocyanate 101-68-8	STP					> 1 mg/L	

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Xylene - mixture of isomeres 1330-20-7	worker	inhalation	Acute/short term exposure - systemic effects		289 mg/m3	
Xylene - mixture of isomeres 1330-20-7	worker	inhalation	Acute/short term exposure - local effects		289 mg/m3	
Xylene - mixture of isomeres 1330-20-7	worker	dermal	Long term exposure - systemic effects		180 mg/kg	
Xylene - mixture of isomeres 1330-20-7	worker	inhalation	Long term exposure - systemic effects		77 mg/m3	
Xylene - mixture of isomeres 1330-20-7	general population	inhalation	Acute/short term exposure - systemic effects		174 mg/m3	
Xylene - mixture of isomeres 1330-20-7	general population	inhalation	Acute/short term exposure - local effects		174 mg/m3	
Xylene - mixture of isomeres 1330-20-7	general population	dermal	Long term exposure - systemic effects		108 mg/kg	
Xylene - mixture of isomeres 1330-20-7	general population	inhalation	Long term exposure - systemic effects		14,8 mg/m3	
4,4'- methylenediphenyl diisocyanate 101-68-8	worker	dermal	Acute/short term exposure - systemic effects		50 mg/kg bw/day	
4,4'- methylenediphenyl diisocyanate 101-68-8	worker	inhalation	Acute/short term exposure - systemic effects		0,1 mg/m3	
4,4'- methylenediphenyl diisocyanate 101-68-8	worker	dermal	Acute/short term exposure - local effects		28,7 mg/cm2	
4,4'- methylenediphenyl diisocyanate 101-68-8	worker	inhalation	Acute/short term exposure - local effects		0,1 mg/m3	
4,4'- methylenediphenyl diisocyanate 101-68-8	worker	inhalation	Long term exposure - systemic effects		0,05 mg/m3	
4,4'- methylenediphenyl diisocyanate 101-68-8	worker	inhalation	Long term exposure - local effects		0,05 mg/m3	
4,4'- methylenediphenyl diisocyanate 101-68-8	general population	dermal	Acute/short term exposure - systemic effects		25 mg/kg bw/day	
4,4'- methylenediphenyl diisocyanate 101-68-8	general population	inhalation	Acute/short term exposure - systemic effects		0,05 mg/m3	
4,4'- methylenediphenyl diisocyanate 101-68-8	general population	oral	Acute/short term exposure - systemic effects		20 mg/kg bw/day	
4,4'- methylenediphenyl diisocyanate 101-68-8	general population	dermal	Acute/short term exposure - local effects		17,2 mg/cm2	
4,4'- methylenediphenyl diisocyanate 101-68-8	general population	inhalation	Acute/short term exposure - local effects		0,05 mg/m3	
4,4'- methylenediphenyl diisocyanate 101-68-8	general population	inhalation	Long term exposure - systemic effects		0,025 mg/m3	
4,4'- methylenediphenyl diisocyanate 101-68-8	general population	inhalation	Long term exposure - local effects		0,025 mg/m3	

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.
Filter A1-A3 (brown)

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.

Skin protection:

Wear protective equipment.
Protective clothing that covers arms and legs.

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to the regulation no. 819 of 19 August 1994.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	solid material pasty white
Odor	of solvent
pH	No data available / Not applicable
Initial boiling point	No data available / Not applicable
Flash point	No data available / Not applicable
Decomposition temperature	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Density (20 °C (68 °F))	1,17 g/cm ³
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Insoluble
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	
lower	0,4 % (V)
upper	7,6 % (V)
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable

9.2. Other information

Ignition temperature > 200 °C (> 392 °F)

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reacts with water: Pressure built up in closed vessel (CO₂).
Reaction with water, alcohols, amines.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Avoid moisture.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

At higher temperatures isocyanate may be released.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****General toxicological information:**

Persons suffering from allergic reactions to isocyanates should avoid contact with the product.

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Sensitizing:

May cause sensitization by inhalation.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	LD50 LC50 LD50	3.523 - 8.700 mg/kg 6350 ppm > 4.350 mg/kg	oral inhalation dermal	4 h	rat rabbit	
4,4'-methylenediphenyl diisocyanate 101-68-8	LD50 LC50	> 2.000 mg/kg > 2,24 mg/l	oral inhalation		rat rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Methylenediphenyl diisocyanate 26447-40-5	LD50	> 2.000 mg/kg	oral		rat	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	moderately irritating		rabbit	
4,4'-methylenediphenyl diisocyanate 101-68-8	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Methylenediphenyl diisocyanate 26447-40-5	highly irritating		rabbit	

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Xylene - mixture of isomers 1330-20-7	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Methylenediphenyl diisocyanate 26447-40-5	not irritating		rabbit	

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	sensitising		guinea pig	
4,4'- methylenediphenyl diisocyanate 101-68-8	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Xylene - mixture of isomers 1330-20-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		
4,4'- methylenediphenyl diisocyanate 101-68-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
Methylenediphenyl diisocyanate 26447-40-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		

SECTION 12: Ecological information**General ecological information:**

Do not empty into drains, soil or bodies of water.

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	LC50	86 mg/l	Fish		Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Xylene - mixture of isomeres 1330-20-7	EC50	3,1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Xylene - mixture of isomeres 1330-20-7	EC50	1 - 10 mg/l	Algae		Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
4,4'- methylenediphenyl diisocyanate 101-68-8	LC0	> 3.000 mg/l	Fish	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
4,4'- methylenediphenyl diisocyanate 101-68-8	EC50	129,7 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4,4'- methylenediphenyl diisocyanate 101-68-8	EC50	> 1.640 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methylenediphenyl diisocyanate 26447-40-5	LC50	> 10.000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	
Methylenediphenyl diisocyanate 26447-40-5	EC50	> 750 mg/l	Daphnia	24 h	Daphnia pulex	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Isoparaffins C9-12 90622-57-4	LC50	> 100 mg/l	Fish	96 h		OECD Guideline 203 (Fish, Acute Toxicity Test)
Isoparaffins C9-12 90622-57-4	EC50	> 100 mg/l	Daphnia	96 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Xylene - mixture of isomeres 1330-20-7	readily biodegradable	aerobic	> 60 %	
4,4'- methylenediphenyl diisocyanate 101-68-8		aerobic	0 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Isoparaffins C9-12 90622-57-4		aerobic	7 - 10 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Xylene - mixture of isomeres 1330-20-7		8,5	7 d	Oncorhynchus mykiss		
Xylene - mixture of isomeres 1330-20-7	3,12					
4,4'- methylenediphenyl diisocyanate 101-68-8		92	28 d	Cyprinus carpio		OECD Guideline 305 E (Bioaccumulation: Flow- through Fish Test)
4,4'- methylenediphenyl diisocyanate 101-68-8	5,22					
Isoparaffins C9-12 90622-57-4	> 5,1					

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

The valid EEC waste code numbers are not product-related but are largely source-related. These can be requested from the manufacturer.

In consultation with the responsible local authority, must be subjected to special treatment.

SECTION 14: Transport information

General information:

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC content 5,00 %
(VOCV 814.018 VOC regulation
CH)

VOC Paints and Varnishes (EU):

Product (sub)category:

This product is not a subject of the Directive 2004/42/EC

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- R10 Flammable.
- R20 Harmful by inhalation.
- R20/21 Harmful by inhalation and in contact with skin.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R38 Irritating to skin.
- R40 Limited evidence of a carcinogenic effect.
- R42/43 May cause sensitization by inhalation and skin contact.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- H226 Flammable liquid and vapor.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- 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.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.