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1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**PRODUCT DETAILS**Trade name: Servijoint One DW**Manufacturer/supplier:**Grace Construction Products
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Slough,
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SL1 4BH

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Information in case of emergency: ++44 (0)208 762 8322

2 COMPOSITION/INFORMATION ON INGREDIENTS**CHEMICAL CHARACTERIZATION****Description:**

Mixture of substances listed below with non-hazardous additions.

For further information, please refer to the product technical data sheet.

Dangerous components:

CAS: 1330-20-7 EINECS: 215-535-7	Xylene	 Xn; R 10-20/21-38	1.0-2.0%
CAS: 26447-40-5 EINECS: 247-714-0	Methylenediphenyl diisocyanate, mixture of isomers	 Xn; R 20-36/37/38-42/43	0.0-1.0%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light aromatic	 Xn,  N; R 37-51/53-65	1.0-2.0%
CAS: 28553-12-0 EINECS: 249-079-5	di-"isononyl" phthalate		10-20%
CAS: 85-68-7 EINECS: 201-622-7	Benzyl butyl phthalate	 T,  N; R 61-62-50/53	10-20%
CAS: 90622-57-4	Mixture of isoparaffins	 Xn; R 65-66	1.0-2.0%

Additional information: For the wording of the listed risk phrases refer to section 16.**3 HAZARDS IDENTIFICATION****Hazard description:**

Xn Harmful

Information concerning particular hazards for human and environment:

The product has to be labelled in accordance with applicable regulations.

R 42 May cause sensitisation by inhalation.

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Contains isocyanates. See information supplied by the manufacturer

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4 FIRST-AID MEASURES**After inhalation:**

Take affected persons into fresh air and keep quiet.
Seek immediate medical advice.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.

After eye contact:

Rinse opened eye for several minutes under running water.
Seek immediate medical advice.

After swallowing:

Wash out mouth with water.
Do not induce vomiting; call for medical help immediately.
Never give anything by mouth to an unconscious person.

5 FIRE-FIGHTING MEASURES

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray.

Protective equipment: Wear self-contained respiratory protective device.

Additional information:

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 ACCIDENTAL RELEASE MEASURES**Person-related safety precautions:**

Ensure adequate ventilation.
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.

Measures for environmental protection:

Do not allow to enter sewers/ surface or ground water.
Dilute with plenty of water.

Measures for cleaning/collecting:

Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, universal binders).
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.

7 HANDLING AND STORAGE**HANDLING****Information for safe handling:**

Open and handle receptacle with care.
Prevent formation of aerosols.
Store in original containers.

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Information about fire - and explosion protection: No special measures required.

STORAGE

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions:

Protect from frost.

Store in cool, dry conditions in well sealed receptacles.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with limit values that require monitoring at the workplace:

1330-20-7 Xylene

OES	Short-term value: 662 mg/m ³ , 150 ppm
	Long-term value: 441 mg/m ³ , 100 ppm
Sk	

64742-95-6 Solvent naphtha (petroleum), light aromatic

OES	Long-term value: 100 mg/m ³ , 19 ppm
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28553-12-0 di-"isononyl" phthalate

OES	Long-term value: 5 mg/m ³
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85-68-7 Benzyl butyl phthalate

OES	Long-term value: 5 mg/m ³
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90622-57-4 Mixture of isoparaffins

TWA	Long-term value: 1200 mg/m ³
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Additional information: Based on the lists valid at the date of MSDS creation.

PERSONAL PROTECTIVE EQUIPMENT

General protective and hygienic measures:

Avoid contact with the eyes and skin.

Do not inhale dust / smoke / mist.

Keep away from foodstuffs, beverages and feed.

Do not inhale gases / fumes / aerosols.

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.

Due to the presence of isocyanate, supplied air respirators must be worn whenever the product is spray applied and/or applied in poorly ventilated areas unless local exhaust will maintain exposures below acceptable limits.

A chemical cartridge respirator with organic vapour cartridge is required when local exhaust is unavailable or inadequate to control exposures below required limits.

When supplied-air respirators are not available or use is not practical, an air-purifying respirator may be an acceptable alternative if the recommendations below are followed:

Use of fans to improve air circulation and general ventilation or exhaust ventilation to remove MDI vapours when working in confined spaces.

The use of an air-purifying respirator fitted with organic vapour cartridge and a well managed cartridge change schedule. Due to the low exposure limits and poor odour warning properties, cartridges should be replaced on a daily basis at a minimum.

To complement the above, a viable isocyanate measurement system should be used to monitor workplace levels.

More detailed information is provided in our Technical Note "Bituthene® Liquid Membrane: Ventilation and respiratory protection guidelines" which also refers to "HSG53 Respiratory Protective Equipment - A practical guide

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Second Edition 1998'' published in the UK by HSE Books (ISBN 0 7176 15375)".

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Protection of hands: Protective gloves.

Material of gloves: Rubber gloves.

Eye protection:



Tightly sealed goggles.

Face protection.

Body protection: Protective work clothing.

9 PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

Form:	Paste.
Colour:	According to product specification.
Odour:	Characteristic.
Change in conditions:-	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 100°C
Flash point:	> 100°C
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Relative density at 20°C:	1.182 g/cm ³
Solubility in/Miscibility with:-	
Water:	Fully miscible.
Additional information:	These are typical values and do not constitute a specification.

10 STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous decomposition products:

Hydrogen chloride (HCl)
Hydrogen cyanide (prussic acid)
Isocyanate
Carbon monoxide and carbon dioxide.
Nitrogen oxides (NO_x)
Sulphur oxides (SO_x).

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11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

LD/LC50 values relevant for classification:
1330-20-7 Xylene

Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	6350 mg/l (rat)

85-68-7 Benzyl butyl phthalate

Oral	LD50	2330 mg/kg (rat)
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Primary irritant effect:-
on the skin: May be irritating to the skin on prolonged contact.

on the eye: May be irritating to the eyes.

Sensitization: Sensitization possible through inhalation.

Additional toxicological information: Harmful

12 ECOLOGICAL INFORMATION

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.

13 DISPOSAL CONSIDERATIONS

PRODUCT
Recommendation:


Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue:

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 05 00	wastes not otherwise specified in 08
08 05 01	waste isocyanates

UNCLEANED PACKAGING
Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

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14 TRANSPORT INFORMATION

LAND TRANSPORT ADR/RID (cross-border)

ADR/RID class: -

MARITIME TRANSPORT IMDG

IMDG Class: -

Marine pollutant: No.

AIR TRANSPORT ICAO-TI AND IATA-DGR

ICAO/IATA Class: -

15 REGULATORY INFORMATION

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



Xn Harmful

Hazard-determining components of labelling:

Methylenediphenyl diisocyanate, mixture of isomers

Risk phrases:

42 May cause sensitisation by inhalation.

Safety phrases:

2 Keep out of the reach of children.

23 Do not breathe fumes/aerosol.

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

56 Dispose of this material and its container to hazardous or special waste collection point.

63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Special labelling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer

Waterhazard class: WGK 2 (VwVwS Anhang 4 vom 19.05.1999): hazardous for water.

Other regulations, limitations and prohibitive regulations: All components EINECS listed.

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.

Relevant R-phrases:

10 Flammable.

20 Harmful by inhalation.

20/21 Harmful by inhalation and in contact with skin.

36/37/38 Irritating to eyes, respiratory system and skin.

37 Irritating to respiratory system.

38 Irritating to skin.

42/43 May cause sensitisation by inhalation and skin contact.

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- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
61 May cause harm to the unborn child.
62 Possible risk of impaired fertility.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.

Department issuing MSDS:

EHS Department, EMEA Region, Grace Performance Chemicals, Ajax Avenue, Slough, Berks. SL1 4BH
Tel: ++44 (0)1753 692929, Fax: ++44 (0)1753 637659

Other Information: SAP No.: 12482

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