

**MATERIAL SAFETY DATA SHEET****SECTION 1: Identification of the substance / preparation and company****1.1 Product identifier**

S136

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

Adhesives

Sealants

1.3 Details of the supplier of the safety data sheet:

Seals + Direct LTD
Unit 6, Milton Business Centre
Wick Drive, New Milton
Hants, BH25 6RH
Tel: 01425 617722
Fax: 01425 610967
Email: sales@sealsplusdirect.co.uk

1.4 Emergency telephone number

Tel: 01425 617722 (Mon – Fri 8:30am – 5pm)

SECTION 2: Hazards Identification**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS08

Signal word

Danger

Hazard-determining components of labelling

methylenediphenyl diisocyanate, isomeres and homologues

MATERIAL SAFETY DATA SHEET**Hazard statements**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Additional information

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition / information on ingredients**3.2 Chemical characterisation**

Mixtures

Description

Mixture of several substances

Dangerous components		
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene, mixed isomers, pure Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	< 5.0%
CAS: 90622-57-4 EC number: 918-167-1 Reg.nr.: 01-2119472146-39-xxxx	hydrocarbons, C11-C12 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	< 2.0%
CAS: 28553-12-0 EINECS: 249-079-5 Reg.nr.: 01-2119430798-28-xxxx	di-"isononyl" phthalate substance with a workplace exposure limit	< 2.0%
CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47-xxxx	diphenylmethane-4,4'-diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	< 0.5%
CAS: 25686-28-6 NLP: 500-040-3 Reg.nr.: 01-2119457013-49-xxxx	4,4'-methylenediphenyl diisocyanate, oligomers Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	< 0.2%

SVHC

Doesn't contain SVHC-substances

MATERIAL SAFETY DATA SHEET**Additional information**

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First Aid Measures**4.1 Description of first aid measures**After inhalation

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness bring patient into a stable side position for transport.

After skin contact

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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 agents

Water spray

Alcohol-resistant foam

Fire-extinguishing powder

Carbon dioxide

For safety reasons unsuitable extinguishing agents

Water with full jet.

5.2 Special hazards arising from the substance or mixture

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

**MATERIAL SAFETY DATA SHEET****5.3 Advice for firefighters**

Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

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.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and Storage**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires

The product contains small quantities of organic solvents. The possibility of an ignitable vapour / air mixture forming is very slight but, under certain local conditions, this should not be overlooked. Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities**Storage requirements to be met by storerooms and receptacles**

Prevent any seepage into the ground.

Information about storage in one common storage facility

Store away from foodstuffs.

Further information about storage conditions

Protect from frost.
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.

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Store receptacle in a well ventilated area.
Store in dry conditions.

Storage class (according german VCI-concept)

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7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure Controls / Personal Protection**Additional information about design of technical systems**

No further data; see item 7.

8.1 Control parameters

Additional information about design of technical systems

No further data; see item 7.

8.1 Control parameters

Components with limit values that require monitoring at the workplace	
28553-12-0 di-"isononyl" phthalate	
WEL (Great Britain)	Long-term value: 5 mg/m ³
101-68-8 diphenylmethane-4,4'-diisocyanate	
WEL (Great Britain)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
25686-28-6 4,4'-methylenediphenyl diisocyanate, oligomers	
WEL (Great Britain)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
Ingredients with biological limit values	
1330-20-7 xylene, mixed isomers, pure	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

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The usual precautionary measures should be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of the work.

Immediately remove all soiled and contaminated clothing.

Breathing equipment

Not required with good ventilation and/or adequate extractor facilities.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device A2 (DIN EN 14387 / DIN EN 141)

Protection of hands

Direct contact with the chemical preparation must be avoided by organizational measures.

Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

Compliance with the stated penetration time (starts with the first product contact) must be ensured!

The gloves need to be disposed of after the penetration time and new gloves used!

For the permanent contact gloves made of the following materials are suitable

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the "Barrier 02-100" underglove from Ansell (penetration time 480 min).

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable

Fluorinated rubber (Viton) (0.7mm - penetration time 15 min)

As protection from splashes gloves made of the following materials are suitable

Recommended for protection from splashes: disposable nitrile gloves (minimum thickness 0.12 mm) with long cuffs. After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

Eye protection

Safety glasses

SECTION 9: Physical and Chemical Properties**9.1 Information on basic physical and chemical properties****Appearance**

Form

Pasty

Penetrometer test according ADR 2.3.4.3

Test result: solid (penetration after 5s < 15mm)

Colour

Black

Odour

Solvent-like

Change in condition

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Boiling point/Boiling range Not applicable

Flash point Not applicable

Ignition temperature > 200 °C

Explosion limits Lower: 0.4 Vol %
Upper: 7.6 Vol %

Vapour pressure at 20 °C < 100 hPa

Specific gravity at 20 °C 1.17 g/cm³Solubility in / Miscibility Insoluble
with water reacts with waterSolvent content

Organic solvents 5.9 %

VOC (EU) 68.9 g/l

VOC (EU) 5.90 %

VOC (CH) 5.90 %

9.2 Other informationBurning test according 33.2.1.4 "Manual of Test and Criteria" [Recommendations on the
TRANSPORT OF DANGEROUS GOODS (United Nations)]

Burning rate:- 2,2mm/s [Not a dangerous good according class 4.1(ADR)]

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

No further relevant information available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Reacts with alcohols, amines, aqueous acids and alkalis.

Reacts with water forming carbon dioxide. In closed containers there is a danger of bursting, due to build up of pressure.

10.4 Conditions to avoid

No further relevant information available.

MATERIAL SAFETY DATA SHEET**10.5 Incompatible materials**

No further relevant information available.

10.6 Hazardous decomposition products

In case of fire, the following substance(s) may occur:

Hydrogen chloride (HCl)

Nitrogen oxides

Sulphur oxides (SOx)

SECTION 11: Toxicological Information**11.1 Information on toxicological effects**Acute toxicity

Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification		
ATE (Acute Toxicity Estimates)		
Dermal Inhalative	LD50 LD50/4 h	29891 mg/kg 299 mg/l
1 330-20-7 xylene, mixed isomers, pure		
Oral Dermal Inhalative	LD50 LD50 LC50/4 h	3523 mg/kg (rat) 1100 mg/kg (ATE) 11 mg/l (ATE)

Primary irritant effectSkin corrosion/irritation

Prolonged or repeated contact with the skin may cause skin irritation.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

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Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological Information**12.1 Toxicity**Aquatic toxicity

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Additional ecological information**General notes**

Do not allow product to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT Not applicable.

vPvB Not applicable.

12.6 Other adverse effects

No further relevant information available.

MATERIAL SAFETY DATA SHEETSECTION 13: Disposal Consideration**13.1 Waste treatment methods**Recommendation

Disposal in accordance with official regulations

EWC-Code(s)

To be treated as industrial waste: do not dispose of in or on soil, in watercourses or bodies, or through a sewage system. These EU refuse code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances listed under item 3 of this safety datasheet is itself classified as dangerous (*).

Waste accruing during application

080409* waste adhesives and sealants containing organic solvents or other dangerous substances

080410 waste adhesives and sealants other than those mentioned in 080409

Waste accruing during cleaning

08 04 11* adhesive and sealant sludges containing organic solvents or other dangerous substances

08 04 12 adhesive and sealant sludges other than those mentioned in 080411

Soiled waste packaging

15 01 10* packaging containing residues of or contaminated by dangerous substances.

Clean waste packaging

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 04 metallic packaging

Uncleaned packagingsRecommendation

Disposal must be made according to official regulations.

SECTION 14: Transport Information**14.1 UN-Number**

ADR,RID,ADN, ADN, IMDG, IATA

Void

14.2 UN proper shipping name

- ADR,RID,ADN, ADN, IMDG, IATA

Void

MATERIAL SAFETY DATA SHEET**14.3 Transport hazard class(es)**

- ADR,RID,ADN, ADN, IMDG, IATA
- Class

Void

14.4 Packing group

ADR,RID,ADN, IMDG, IATA Void

14.5 Environmental hazards

Marine pollutant

No

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information

Protect from moisture

UN "Model Regulation"

Void

SECTION 15: Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3, 20, 52a, 56a

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other Information

Revision date Refer to the date at bottom of sheet

For industrial use only.

Legend of H- and R-phrases, concerning the in chapter 3 mentioned substances (marking of product please see chapter 2)

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

SEALS+DIRECT

DESCRIPTION

**BLACK POLYURETHANE ADHESIVE
(300ML)**

DOCUMENT NO.

S 136 MSDS**MATERIAL SAFETY DATA SHEET**

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.
 H413 May cause long lasting harmful effects to aquatic life.

Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organisation
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic

ISSUE 2	DATE 13.07.26	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE
CR 0031	APPROVED PJH	CR	APPROVED	CR	APPROVED	CR	APPROVED	CR	APPROVED	CR	APPROVED	CR	APPROVED

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