SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE





DOCUMENT NO.



MATERIAL SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

ADHESIVE PART A

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

1.1 Product identifier

Product Name A262 Waterproof Contact Adhesive Part A

CAS No. Not applicable. EC No. Not applicable. REACH Registration No. Not known.

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

Identified Use(s) Industrial use only. Adhesive Applications. Uses Advised Against

Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Seals + Direct Ltd. Company Identification

Address of Manufacturer Unit 6 Milton Business Centre

> Wick Drive. New Milton Hampshire, BH25 6RH, UK

Telephone +44 (0) 1425 627722

E-mail sales@sealsplusdirect.co.uk

Office hours 8:30am to 5:00pm Monday - Thursday, 8:30am to 4:30pm Friday

1.4 Emergency telephone number

Emergency Phone Number. +44 (0) 1425 627722

Contact Office Hours

National Response Centre

Address National Poisons Information Service (Birmingham Centre)

City Hospital, Dudley Road, Birmingham, UK

Emergency Phone No. +00 448 706 006 266 or NHS 111

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

(CLP)

Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects.

Eye Irritant 2: Causes serious eye irritation.

Flammable Liquid 2: Highly flammable liquid and vapour.

Reproduction 2: Suspected of damaging fertility or the unborn child.

Skin Irritant 2: Causes skin irritation.

STOT RE 2: May cause damage to organs through prolonged or repeated

exposure.

STOT SE 3: May cause drowsiness or dizziness.

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE





DOCUMENT NO.



MATERIAL SAFETY DATA SHEET

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name Analo 4418

Hazard Pictogram(s)



Signal Word(s)

Hazard Statement(s)

Danger

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eve irritation.

H336: May cause drowsiness or dizziness.

H361: Suspected of damaging fertility or the unborn child.

H373: May cause damage to organs through prolonged or repeated

exposure.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P233: Keep container tightly closed.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face

protection/hearing protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: IF exposed or concerned: Get medical advice/attention. P332+P313: If skin irritation occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse.

P370+P378: In case of fire: Use to extinguish.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents in accordance with local, state or national

legislation.

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE





DOCUMENT NO.





Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.		Hazard Statement(s)	Hazard Pictogram(s)
Naphtha (petroleum), hydrotreated light Low boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20°C to 190°C (-4°F to 374°F).]	64742-49-0	265-151-9	15-40	Asp. Tox. 1 H304 Muta. 1B H340 Carc. 1B H350	GHS08
butanone ethyl methyl ketone	78-93-3	201-159-0	20-45	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336	GHS07
toluene	108-88-3	203-625-9	10-30	Flam. Liq. 2 H225 Asp. Tox. 1 H304 Skin Irrit. 2 H315 STOT SE 3 H336 Repr. 2 H361d STOT RE 2 H373	GHS02 GHS08 GHS07
acetone propan-2-one propanone	67-64-1	200-662-2	1-15	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336	GHS07
zinc oxide	1314-13-2	215-222-5	<1	Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS09

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Remove person to fresh air and keep comfortable for breathing. Call a

POISON CENTER/doctor if you feel unwell.

Skin Contact Take off contaminated clothing and wash it before reuse. If skin irritation

occurs: Get medical advice/attention. Specific treatment (see Medical Advice on this label). Take off immediately all contaminated clothing.

Rinse skin with water. IF exposed or concerned:

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. IF exposed or concerned: Get

medical advice/attention. If eye irritation persists:

Ingestion IF exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both cure and delayed

Causes burns.

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE





DOCUMENT NO.



MATERIAL SAFETY DATA SHEET

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment (see Medical Advice on this label). Call a POISON CENTER / Doctor if you feel unwell. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media

Use to extinguish. Water jet spray.

5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. May decompose in a fire, giving off toxic and irritant vapours.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

SECTION 6: ACCIDENTAL RLEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure full personal protection (including respiratory protection) during removal of spillages.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosionproof [electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Wash hands and exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE





DOCUMENT NO.





7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Store locked up.

Storage temperature Ambient.

Storage life Stable under normal conditions.

Incompatible materials None Known.

7.3 Specific end use(s)

Industrial use only. Adhesive applications.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

Occupational Exposure Limits						
SUBSTANCE	CAS No	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Butan-2-one (methyl ethyl ketone)	78-93-3	200	600	300	899	Sk, BMGV
Toluene	108-88-3	50	191	100	384	Sk
Acetone	67-64-1	500	1210	1500	3620	

Region	Source	
Europe	EU Occupational Exposure Limits	
United Kingdom	Workplace Exposure Limits (WEL)	
Remark	Notes	
Sk	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
BMGV	Biological monitoring guidance values are listed in Table 2.	

Biological Exposure Indices						
Substances	CAS Number	Sampling	Tissues	Control parameters	Biological monitoring guidance value	Comments
Butan-2-one	78-93-3	Post shift	urine	butan-2-one	70 μmol /L	

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE





DOCUMENT NO.



MATERIAL SAFETY DATA SHEET

8.2.2 Personal protection equipment

Eve Protection Wear eye protection with side protection (EN166).



Skin Protection Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory Protection A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



None known. Thermal Hazards



8.2.3 Environmental exposure

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Liquid. Colour Brownish. Odour Characteristic. Odour threshold Not known. Not known. pΗ Melting point/freezing point Not known. Initial boiling point and boiling Not known.

range

Flash Point -18°C Evaporation rate Not known. Flammability (solid, gas) Not known. Upper/lower flammability or Not known.

explosive limits

Vapour pressure Not known. Vapour density Not known. Density (g/ml) Not known. Relative density 0.9 @ 20°C

Solubility(ies) Solubility (Water): Slightly miscible in water

> Solubility (Other): Not known Not known.

Partition coefficient: n-octanol/

Auto-ignition temperature Not known. Decomposition Temperature (°C) Not known. Viscosity Not known. Explosive properties Not known.

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



DOCUMENT NO.

A 262 MSDS



MATERIAL SAFETY DATA SHEET

Oxidising properties Not known.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated.

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Avoid friction, sparks, or other means of ignition.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion Low acute toxicity Acute toxicity - Skin Contact Low acute toxicity Acute toxicity - Inhalation Low acute toxicity

Skin corrosion/irritation Self classification: Causes skin irritation. Serious eye damage/irritation Self classification: Causes serious eye irritation.

Skin sensitization data Not classified Not classified Respiratory sensitization data

Germ cell mutagenicity There is no evidence of mutagenic potential. Carcinogenicity No evidence of carcinogenicity.

Self classification: Suspected of damaging fertility or the unborn Reproductive toxicity

child. Lactation Not classified

STOT - single exposure Self classification: May cause drowsiness or dizziness.

STOT - repeated exposure Self classification: May cause damage to organs through prolonged or

repeated exposure.

Aspiration hazard Not classified

11.2 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.



Very toxic to aquatic life with long lasting effects

Toxicity - Aquatic invertebrates Not known. Toxicity - Fish Not known. Toxicity - Algae Not known. Toxicity - Sediment Compartment Not classified. Toxicity - Terrestrial Compartment Not classified.

12.2 Persistence and degradation

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Results of PBT and vPvB assessment

Not known.

12.6 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point.

13.2 Additional information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

1133

14.2 UN proper shipping name

ADHESIVES containing flammable liquid

14.3 Transport hazard class(es)

ADR/RID

Class 3

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE

P001 IBC03 LP01 R001

PP1

MP19

Not applicable



DOCUMENT NO.

A 262 MSDS

MATERIAL SAFETY DATA SHEET

ADR Classification Code F1 640E **Special Provisions** Limited Quantities 5 L **Excepted Quantities** E1 Emergency Action Code •3Y

Mixed Packing Instructions for

Packages

Special Packing Provisions for

Packages

Mixed Packing Instructions for

Packages

Packing Instructions for Portable T2

Tanks

Special Provisions for Portable TP1

Tanks

Tank Code for Tanks **LGBF**

Special Provisions for Tanks Not applicable

Vehicle for Tank Carriage ADR Transport Category 3 Tunnel Restriction Code D/E Special Provisions for Carriage -V12

Packages

Special Provisions for Carriage -

Bulk

Special Provisions for Carriage – Not applicable

Loading, Unloading and Handling Special Provisions for Carriage -S2 Operation

ADR HIN 30

IMDG

Class 3 Special Provisions 640E Limited Quantities 5 L **Excepted Quantities**

Mixed Packing Instructions for

Packages

PP1

P001 IBC03 LP01 R001

Special Packing Provisions for Packages

Packing Instructions for Portable T2

Tanks

Special Provisions for Portable TP1

Tanks

F-E. S-D **IMDG EMS** Stowage and Handling

Not determined Segregation

ICAO/IATA

Excepted Quantities E1 Passenger and Cargo Aircraft Y344

Limited Quantities Packing

Instructions

Passenger and Cargo Aircraft 10L

Limited Quantities Max net Qty Passenger and Cargo Aircraft

Packing Instructions 355 Passenger and Cargo Aircraft 60L

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



DOCUMENT NO.

A 262 MSDS

MATERIAL SAFETY DATA SHEET

Max net Qty

Cargo Aircraft Packing

366

Instructions

Cargo Aircraft Max net Qtv 220L **Special Provisions** Α3 **Emergency Response** 31 Guidebook (ERG) Code

Labels 3



14.4 Packing group

Ш

14.5 Environmental Hazards

Classified as a Marine Pollutant

14.6 Special precautions for user

Not known.

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

No information available.

SECTION 15: REGULATORY INFORMATION

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

European Regulations – Authorisations and / or restrictions on use

Candidate List of Substances of

Not Listed.

Very High Concern for

Authorisation

REACH: ANNEX XIV list of

substances subject to

authorisation

REACH: Annex XVII Restrictions

on the manufacture, placing on market and use of certain dangerous substances, mixtures

and articles

Not Listed.

Toluene (108-88-3), acetone propan-2-one propanone (67-64-1), butanone ethyl methyl ketone (78-93-3), Naphtha (petroleum), hydrotreated light Low the boiling point hydrogen treated naphtha [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20°C to 190°C (-4°F to 374°F).] (64742-49-0) Toluene (108-88-3), Zinc oxide (1314-13-2)

Community Rolling Action Plan

(CoRAP)

pollutants

Regulation (EC) No 850/2004 of the European Parliament and of the Council on persistent organic

Not listed.

Page 10 of 34

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.





MATERIAL SAFETY DATA SHEET

Regulation (EC) N° 2037/2000 on substances that deplete the Not listed.

ozone layer

Regulation (EU) N° 649/2012 of

Not listed.

the European Parliament and of the Council concerning the export and import of hazardous

chemicals

National Regulations

Other Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

Legend

Hazard Pictogram(s)



Hazard classification

Aguatic Acute 1: Hazardous to the aguatic environment, Acute, Category 1

Aguatic Chronic 1: Hazardous to the aguatic environment. Chronic.

Category 1 Asp. Tox. 1: Aspiration hazard, Category 1

Carc. 1B: Carcinogenicity, Category 1B

Eye Irrit. 2: Serious eye damage/irritation, Category 2

Flam. Liq. 2: Flammable liquid, Category 2 Muta. 1B: Germ cell mutagenicity, Category 1B Repr. 2: Reproductive toxicity, Category 2

STOT RE 2: Specific target organ toxicity — repeated exposure,

Category 2

STOT SE 3 H336: Specific target organ toxicity — single exposure,

Category 3

Skin Irrit. 2: Skin corrosion/irritation, Category 2

Hazard Statement(s) H225: Highly flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.

H340: May cause genetic defects.

H350: May cause cancer.

H361: Suspected of damaging fertility or the unborn child.

H361d: Suspected of damaging the unborn child.

H373: May cause damage to organs through prolonged or repeated

exposure.

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



DOCUMENT NO.

A 262 MSDS



MATERIAL SAFETY DATA SHEET

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P260: Do not breathe dust/fume/gas/mist/vapours/spray. P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face

protection / hearing protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable

for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P312: Call a POISON CENTER/doctor if you feel unwell.

P314: Get medical advice/attention if you feel unwell.

P321: Specific treatment (see Medical Advice on this label).

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P370+P378: In case of fire: Use to extinguish.

P391: Collect spillage.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national

legislation.

Acronyms

ADN: European Agreement concerning the International Carriage of

Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of

Dangerous Goods by Road

CAS: Chemical Abstracts Service

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging

of substances and mixtures DNEL: Derived No Effect Level EC: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods

LTEL: Long term exposure limit

PBT: Persistent, Bioaccumulative and Toxic

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



DOCUMENT NO.

A 262 MSDS



MATERIAL SAFETY DATA SHEET

PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of

Chemicals

RID: Regulations concerning the International Carriage of Dangerous Goods by

Rail

STEL: Short term exposure limit STOT: Specific Target Organ Toxicity

UN: United Nations

vPvB: very Persistent and very Bioaccumulative

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CURING AGENT PART B

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

Product form Mixture

Product name A262 Curing Agent Part B 3695 2H00-C0TV-P00Y-15CM Product code UFI

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

1.2.1 Relevant identified uses

Use of the substance/mixture Adhesive

1.2.2 Uses advised against

No additional information available

1.3 Details of the supplier of the safety data sheet

Seals + Direct Ltd. Unit 6 Milton Business Centre Wick Drive, New Milton Hampshire, BH25 6RH, UK Telephone: +44 (0)1425 617722 E-mail: sales@sealsplusdirect.co.uk

1.4 Emergency telephone number

Emergency number: +44 (0)1425 617722 (Office hours only, English language only) or NHS 111

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE





DOCUMENT NO.



MATERIAL SAFETY DATA SHEET

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Carc. 2	H351
STOT SE 3	H336
STOT SE 3	H335
STOT RE 2	H373

Full text of hazard classes and H-statements: see section 16 Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







Signal word (CLP) Danger

Contains Ethyl acetate; Diphenylmethane Diisocyanate, isomers and homologues

Hazard statements (CLP) H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H334 - May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer.

H373 - May cause damage to organs (respiratory system) through prolonged

or repeated exposure (if inhaled).

Precautionary statements (CLP)

ignition

P210 - Keep away from heat, hot surfaces, sparks, open flames and other

sources. No smoking.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable

for breathing.

P342+P311 - If experiencing respiratory symptoms: Call doctor.

P403+P235 - Store in a well-ventilated place. Keep cool.

EUH-statements EUH204 - Contains isocyanates. May produce an allergic reaction.

Extra phrases Persons already sensitised to diisocyanates may develop allergic reactions when

using this product.

Persons suffering from asthma, eczema or skin problems should avoid contact,

including dermal contact, with this product.

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.





This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

2.3 Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not Applicable

3.2 Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethyl acetate	(CAS-No.) 141-78-6 (EC No.) 205-500-4 (EC index No.) 607-022-00-5 (REACH-no) 01-2119475103- 46- XXXX	60 - 100	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Diphenylmethane Diisocyanate, isomers and homologues	(CAS-No.) 9016-87-9 (EC index No.) 615-005-00-9 (REACH-no) 01-2119457024- 46- XXXX	10 - 30	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Diphenylmethane-4,4'-di-isocyanate	(CAS-No.) 101-68-8 (EC No.) 202-966-0 (EC index No.) 615-005-00-9 (REACH-no) 01-2119457014- 47- XXXX	5 - 10	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane- 2,4'-diisocyanate	(CAS-No.) 5873-54-1 (EC No.) 227-534-9 (EC index No.) 615-005-00-9 (REACH-no) 01-2119480143- 45- XXXX	<1	Carc. 2, H351 Acute Tox. 4 (Inhalation), 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
2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'- diisocyanate	(CAS-No.) 2536-05-2 (EC No.) 219-799-4 (EC index No.) 615-005-00-9 (REACH-no) 01-2119927323- 43- XXXX	< 1	Carc. 2, H351 Acute Tox. 4 (Inhalation), 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

SECTION 4: First aid measures

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.





4.1 Description of first aid measures

Never give anything by mouth to an unconscious person. If you feel unwell, First-aid measures general

seek medical advice (show the label where possible).

First-aid measures after

Remove to fresh air, keep the patient warm and at rest. If symptoms develop.

inhalation

obtain medical attention.

First-aid measures after skin

Remove affected clothing and wash all exposed skin area with mild soap and

contact

water, followed by warm water rinse. If skin irritation or rash occurs: Get

medical advice/attention.

First-aid measures after eye

contact

Rinse cautiously with water for several minutes. Ensure that folded skin of eyelids are thoroughly washed with water. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

First-aid measures after

ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 - 200 ml of water to drink. Obtain medical

attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after

inhalation

May cause drowsiness or dizziness. Nausea. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Even minimal concentrations of isocyanate can lead to a reaction in sensitised people. Symptoms that may occur include the following: irritation of the eyes, nose, throat and lungs, possibly together with a dry throat, a feeling of chest tightness and breathing difficulties. The symptoms may only arise several hours after exposure.

Symptoms/effects after skin

contact

Causes skin irritation. May cause an allergic skin reaction. Animal research has shown that skin contact with substances known to have a sensitising effect

on airways, such as diisocyanate, can cause airways to be sensitised.

Symptoms/effects after eye

Contact

Causes serious eye irritation.

Symptoms/effects after ingestion

Ingestion may cause discomfort. May cause stomach pain or vomiting if

ingested.

Chronic symptoms

Suspected of causing cancer. May cause damage to organs (respiratory

system) through prolonged or repeated exposure (if inhaled).

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

In instances of existing sensitisation towards isocyanates, a doctor should be consulted with regards to workrelated contact with other sensitising substances, or substances which irritate the airway. Treatment for exposure should be geared towards monitoring symptoms and the patient's clinical condition. It must be ensured that the patient has sufficient ventilation and oxygen supply. Isocyanates can cause sensitisation of the airways, or asthma-like symptoms (bronchospasms). Delayed breathing symptoms, including lung oedema, may occur. People who have shown signs of breathlessness after considerable exposure should remain under observation for 24-48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Alcohol-resistant foam. Carbon dioxide. Dry chemical. For large fire: Water

spray.

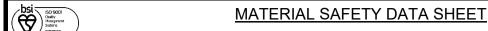
Unsuitable extinguishing media Do not use water jet

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DOCUMENT NO.

A 262 MSDS



5.2 Advice for firefighters

Firefighting instructions Move containers from fire area if you can do it without risk. Cool closed

containers exposed to fire with water spray. Exercise caution when fighting

any chemical fire. Avoid fire-fighting water entering the environment.

Protection during firefighting As in any fire, wear self-contained breathing apparatus and full protective

gear.

SECTION 6: Accidental release

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Emergency procedure Remove ignition sources. Ventilate area. Do not breath vapours. Avoid

contact with eyes, skin and clothing. Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment Use personal protective equipment as required. In case of inadequate

ventilation wear respiratory protection. See Section 8.

Emergency procedures Remove ignition sources. Use only non-sparking tools. Ventilate area. Do

not breathe vapours. Avoid contact with eyes, skin and clothing.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large

amounts of the product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

For containment Stop leak, if possible, without risk. Dam up the liquid spill.

Methods for cleaning up Liquid: Absorb with earth, sand or other non-combustible material and transfer

> to containers for later disposal. Cured product: Pick up mechanically. Dispose in a safe manner in accordance with local/national regulations.

6.4 Reference to other sections

Section 8: Exposure controls/personal protection.

Section 13: Disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Additional hazards when Handle empty containers with care because residual vapours are processed

flammable.

Precautions for safe handling Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Use only non-sparking tools. Take precautionary measures against static discharge. Use explosion-proof equipment. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.





vapours. Provide good ventilation in process area to prevent formation of

vapour. Use only outdoors or in a well-ventilated area.

Handle in accordance with good industrial hygiene and safety practice. Do Hygiene measures

not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not

be allowed out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep only in original container. Store tightly closed in

a dry, cool and well- ventilated place.

Incompatible materials Strong oxidising agents. Strong acids. Strong alkalis.

+5°C to +25°C Storage temperature

7.3 Specific end uses

Adhesive.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 National occupational exposure and biological limit values

Ethyl acetate (141-78-6)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Ethyl acetate		
IOELV TWA (mg/m³)	734 mg/m³		
IOELV TWA (ppm)	200 ppm		
IOELV STEL (mg/m³)	1468 mg/m³		
IOELV STEL (ppm)	400 ppm		
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164		
Ireland - Occupational Exposure Limits			
Local name	Ethyl acetate		
OEL (8 hours ref) (mg/m³)	734 mg/m³		
OEL TWA [2]	200 ppm		
OEL (15 min ref) (mg/m3)	1468 mg/m³		
OEL STEL [ppm]	400 ppm		
Notes (IE)	IOELV (Indicative Occupational Exposure Limit Values)		
Regulatory reference	Chemical Agents Code of Practice 2020		
United Kingdom - Occupational Exposure Limits			
Local name	Ethyl acetate		
WEL TWA (mg/m³)	734 mg/m³		

SERLS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.



MATERIAL SAFETY DATA SHEET

WEL TWA (ppm)	200 ppm
WEL STEL (mg/m³)	1468 mg/m³

Ethyl acetate (141-78-6)	
WEL STEL (ppm)	400 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Diphenylmethane Diisocyanate, is	somers and homologues (9016-87-9)		
Ireland - Occupational Exposure Limits			
Local name	Isocyanates, All, (as -NCO) except Methyl isocyanate and Toluene (2,4 or 2,6 diisocyanate)		
OEL (8 hours ref) (mg/m³)	0.02 mg/m³		
OEL (15 min ref) (mg/m3)	0.07 mg/m³		
Notes (IE)	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))		
Regulatory reference	Chemical Agents Code of Practice 2020		
Ireland - Biological limit values			
Local name	Isocyanates		
BLV	1 μmol/mol creatinine Parameter: urinary diamine - Medium: urine - Sampling time: Post task		
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)		
United Kingdom - Occupational E	xposure Limits		
Local name	Isocyanates, all (as –NCO)		
WEL TWA (mg/m³)	0.02 mg/m³		
WEL STEL (mg/m³)	0.07 mg/m³		
Remark (WEL)	Sen		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
United Kingdom - Biological limit	values		
Local name	Isocyanates (applies to HDI, IPDI, TDI and MDI)		
BMGV	1 μmol/mol creatinine Parameter: isocyanate-derived diamine - Medium: urine - Sampling time: At the end of the period of exposure		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.





Diphenylmethane-4,4'-di-isocyanate (101-68-8) **Ireland - Occupational Exposure Limits** Local name 4,4'-Methylene-diphenyl diisocyanate (as —NCO) [MDI] OEL TWA [2] 0.005 ppm

Diphenylmethane-4,4'-di-isocyan	ate (101-68-8)
Notes (IE)	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))
Regulatory reference	Chemical Agents Code of Practice 2020
Ireland - Biological limit values	
Local name	Isocyanates
BLV	1 μmol/mol creatinine Parameter: urinary diamine - Medium: urine - Sampling time: Post task
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)
United Kingdom - Occupational E	Exposure Limits
Local name	Isocyanates, all (as –NCO)
WEL TWA (mg/m³)	0.02 mg/m³
WEL STEL (mg/m³)	0.07 mg/m³
Remark (WEL)	Sen
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
United Kingdom - Biological limit	values
Local name	Isocyanates (applies to HDI, IPDI, TDI and MDI)
BMGV	1 µmol/mol creatinine Parameter: isocyanate-derived diamine - Medium: urine - Sampling time: At the end of the period of exposure
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

o-(p-isocyanatobenzyl)phenyl isocyanate;	diphenylmethane-2,4'-diisocyanate (5873-54-1)	
Ireland - Occupational Exposure Limits		
Local name	Isocyanates, All, (as -NCO) except Methyl isocyanate and Toluene (2,4 or 2,6 diisocyanate)	
OEL (8 hours ref) (mg/m³)	0.02 mg/m³	
OEL (15 min ref) (mg/m3)	0.07 mg/m³	

SERLS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.





MATERIAL SAFETY DATA SHEET

Notes (IE)	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))
Regulatory reference	Chemical Agents Code of Practice 2020
Ireland - Biological limit values	
Local name	Isocyanates
BLV	1 μmol/mol creatinine Parameter: urinary diamine - Medium: urine - Sampling time: Post task
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)
United Kingdom - Occupational Exposure Limits	
Local name	Isocyanates
WEL TWA (mg/m³)	0.02 mg/m³ all (as –NCO) Except methyl isocyanate
WEL STEL (mg/m³)	0.07 mg/m³ all (as –NCO) Except methyl isocyanate
Remark (WEL)	Sen (Capable of causing occupational asthma)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
United Kingdom - Biological limit values	
Local name	Isocyanates (applies to HDI, IPDI, TDI and MDI)
BMGV	1 µmol/mol creatinine Parameter: isocyanate-derived diamine - Medium: urine - Sampling time: At the end of the period of exposure
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

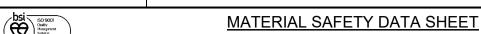
2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)		
Ireland - Occupational Exposure Limits	Ireland - Occupational Exposure Limits	
Local name	Isocyanates, All, (as -NCO) except Methyl isocyanate and Toluene (2,4 or 2,6 diisocyanate)	
OEL (8 hours ref) (mg/m³)	0.02 mg/m³	
OEL (15 min ref) (mg/m3)	0.07 mg/m³	
Notes (IE)	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations	

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE





DOCUMENT NO.



well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))		
Chemical Agents Code of Practice 2020		
Isocyanates		
1 μmol/mol creatinine Parameter: urinary diamine - Medium: urine - Sampling time: Post task		
Biological Monitoring Guidelines (HSA, 2011)		
United Kingdom - Occupational Exposure Limits		
Isocyanates		
0.02 mg/m³ all (as –NCO) Except methyl isocyanate		
0.07 mg/m³ all (as –NCO) Except methyl isocyanate		
Sen (Capable of causing occupational asthma)		
EH40/2005 (Fourth edition, 2020). HSE		
United Kingdom - Biological limit values		
Isocyanates (applies to HDI, IPDI, TDI and MDI)		
1 µmol/mol creatinine Parameter: isocyanate-derived diamine - Medium: urine - Sampling time: At the end of the period of exposure		

8.1.2 Recommended monitoring procedures

No additional information available.

8.1.3 Air contaminants formed

No additional information available.

8.1.4 DNEL and PNEC

Ethyl acetate (141-78-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	1468 mg/m³
Acute - local effects, inhalation	1468 mg/m³
Long-term - systemic effects, dermal	63 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	734 mg/m³
Long-term - local effects, inhalation	734 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	734 mg/m³
Acute - local effects, inhalation	734 mg/m³

SERLS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.



MATERIAL SAFETY DATA SHEET

Long-term - systemic effects, oral	4.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	367 mg/m³
Long-term - systemic effects, dermal	37 mg/kg bodyweight/day
Long-term - local effects, inhalation	367 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.24 mg/l
PNEC aqua (marine water)	0.024 mg/l
PNEC aqua (intermittent, freshwater)	1.65 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.15 mg/kg dwt
PNEC sediment (marine water)	0.115 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.148 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	0.2 kg/kg food
PNEC (STP)	
PNEC sewage treatment plant	650 mg/l

Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	0.1 mg/m³	
Long-term - local effects, inhalation	0.05 mg/m³	
DNEL/DMEL (General population)		
Acute - local effects, inhalation	0.05 mg/m³	
Long-term - local effects, inhalation	0.025 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	1 mg/l	
PNEC aqua (marine water)	1 mg/l	
PNEC aqua (intermittent, freshwater)	10 mg/l	
PNEC (Soil)		
PNEC soil	1 mg/kg dwt	

Diphenylmethane-4,4'-di-isocyanate (101-68-8)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	0.1 mg/m³
Long-term - local effects, inhalation	0.05 mg/m³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	0.05 mg/m³

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.





Long-term - local effects, inhalation	0.025 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	1 mg/l	
PNEC aqua (marine water)	0.1 mg/l	
PNEC aqua (intermittent, freshwater)	10 mg/l	
PNEC (Soil)		
PNEC soil	1 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	1 mg/l	

8.1.5 Control banding

No additional information available

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide good ventilation in process area to prevent formation of vapour. Ensure exposure is below occupational exposure limits (where available). Local exhaust ventilation (LEV) may be required to control inhalation exposure. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

8.2.2 Personal protection equipment

Avoid all unnecessary exposure.

8.2.2.1 Eye and face protection

Eye protection Safety goggles. Standard EN 166 – Personal eye-protection.

8.2.2.2 Skin protection

Skin and body protection

Hand protection

Long-sleeved protective clothing.

Wear protective gloves if skin contact is possible. Standard EN 374 -Protective gloves against chemicals. Recommended: Nitrile rubber gloves. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and

replaced if there are any signs of degradation or breakthrough.

8.2.2.3 Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment. Short term exposure/At low concentrations: Respiratory filter device. Filter type. A1. EN 14387. Long term exposure/In high concentrations: Approved supplied air respirator.

8.2.2.4 Thermal hazards

Not required for normal conditions of use.

8.2.3 Environmental exposure controls

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



DOCUMENT NO.

A 262 MSDS



MATERIAL SAFETY DATA SHEET

Avoid release to the environment. Assure that emissions are compliant with all applicable air pollution control regulations. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary

to reduce emissions to acceptable levels.

Other information Do not eat, drink or smoke during use. Handle in accordance with good

industrial hygiene and safety procedures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Liquid Appearance Liquid Colour Colourless Odour No data available

Odour threshold No data available Not applicable Hq No data available Relative evaporation rate

(butylacetate=1)

Melting point No data available Freezing point No data available 77 °C (approx.) Boiling point Flash point -1 °C (approx.)

Auto-ignition temperature 460 °C

Decomposition temperature No data available Flammability (solid, gas) Not applicable Vapour pressure No data available Relative vapour density at 20 °C No data available

0.94 approx. $(20^{\circ}C)$, (Water = 1)Relative density Solubility In water, material is partially soluble.

Log Pow No data available Viscosity, kinematic $> 20.5 \text{ mm}^2/\text{s}$ Viscosity, dynamic No data available

Explosive properties May form flammable/explosive vapour-air mixture

Not oxidising Oxidising properties **Explosive limits** 1.1 – 11 vol %

9.2 Other information

No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended handling and storage conditions (see section 7).

Highly flammable liquid and vapour.

10.2 Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions

May form flammable/explosive vapour-air mixture.

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.





MATERIAL SAFETY DATA SHEET

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

Strong oxidising agents. Strong acids. Strong alkalis.

10.6 Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Not classified Acute toxicity (oral) Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified

Additional information Based on available data, the classification criteria are not met

Ethyl acetate (141-78-6)	
LD50 dermal, rabbit	> 20000 mg/kg bodyweight
LC50 inhalation, rat (ppm)	> 6000 ppm - 6 Hours

Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)	
LD50 oral, rat	> 2000 mg/kg bodyweight
LD50 dermal, rabbit	9400 mg/kg bodyweight
LC50 inhalation, rat (mg/l)	0.49 mg/l - 4 Hours

Diphenylmethane-4,4'-di-isocyanate (101-68-8)	
LC50 inhalation, rat (mg/l)	431 mg/m³ - 4 Hours

o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)	
LC50 inhalation, rat (mg/l)	431 mg/m³ - 4 Hours

2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)	
LD50 oral, rat	> 5000 mg/kg bodyweight
LC50 inhalation, rat (mg/l)	431 mg/m³ - 4 Hours

Skin corrosion/irritation Serious eye damage/irritation Causes serious eye irritation.

Causes skin irritation.

Respiratory or skin sensitisation

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

cause an allergic skin reaction.

Germ cell mutagenicity

Not classified.

Additional information Carcinogenicity

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

Suspected of causing cancer.

SERLS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.



ARC group	3 - Not classifiable.
Diphenylmethane-4,4'-di-iso	cyanate (101-68-8)
IARC group	3 - Not classifiable.
eproductive toxicity dditional information TOT-single exposure	Not classified. Based on available data, the classification criteria are not met. May cause drowsiness or dizziness. May cause respiratory irritation.
Ethyl acetate (141-78-6)	
STOT-single exposure	May cause drowsiness or dizziness.
Dinhanylmathana Diisacyan	ate, isomers and homologues (9016-87-9)
STOT-single exposure	May cause respiratory irritation.
3101-siligie exposure	iviay cause respiratory irritation.
Diphenylmethane-4,4'-di-iso	cyanate (101-68-8)
STOT-single exposure	May cause respiratory irritation.
o (n iocovenatobonavl)nhom	d incovenate, diphenylmethene 2.4! diipenyenete (5972.54.4)
	/l isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)
STOT-single exposure	May cause respiratory irritation.
2,2'-methylenediphenyl diiso	ocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	May cause damage to organs (respiratory system) through prolonged or repeated exposure (if inhaled).
Diphenylmethane Diisocyan	ate, isomers and homologues (9016-87-9)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Diphenylmethane-4,4'-di-iso	cyanate (101-68-8)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
o-(p-isocyanatobenzyl)pheny	d isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
2.21 masthalanadimbanad diisa	ocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)
2,2 -metnylenealphenyl alisa	

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE





DOCUMENT NO.



MATERIAL SAFETY DATA SHEET

Additional information Based on available data, the classification criteria are not met

Curing Agent Part B	
Viscosity, kinematic	> 20.5 mm²/s

Potential adverse human health effects and symptoms

May cause drowsiness or dizziness, Nausea, may also cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled, even minimal concentrations of isocyanate can lead to a reaction in sensitised people. Symptoms that may occur include the following: irritation of the eyes, nose, throat and lungs, possibly together with a dry throat, a feeling of chest tightness and breathing difficulties. The symptoms may only arise several hours after exposure, causes serious eye irritation, may cause an allergic skin reaction. Animal research has shown that skin contact with substances known to have a sensitising effect on airways, such as diisocyanate, can cause airways to be sensitised, causes skin irritation, May cause stomach pain or vomiting if ingested, Ingestion may cause discomfort, suspected of causing cancer, May cause damage to organs (respiratory system) through prolonged or repeated exposure (if inhaled).

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term (chronic) Not classified.

Not classified.

Ethyl acetate (141-78-6)	
LC50 fish	230 mg/l - 96 Hours (Pimephales promelas)(US EPA E03-05)
NOEC chronic fish	> 100 mg/l - 72 Hours (Desmodesmus subspicatus)
NOEC chronic crustacea	2.4 mg/l - 21 days (Daphnia magna)(OECD 211 method)
NOEC, algae	> 100 mg/l (72 Hours, Desmodesmus subspicatus, Growth rate (OECD 201 method))

Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)	
LC50 fish	> 1000 mg/l - 96 Hours (Danio rerio)
EC50 Daphnia	> 500 mg/l - 48 Hours (Daphnia magna)
ErC50 algae	≈ 1640 mg/l - 3 days (Desmodesmus subspicatus)
NOEC chronic crustacea	10 mg/l - 21 days (Daphnia magna)

12.2 Persistence and degradability

Curing Agent Part B	
Persistence and degradability	No information available.

Ethyl acetate (141-78-6)	
Persistence and degradability	Readily biodegradable.

SERLS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.



MATERIAL SAFETY DATA SHEET

Biodegradation	≈ 62 % - 10 days (O2 consumption)
	omers and homologues (9016-87-9)
Persistence and degradability	Not biodegradable.
2.3 Bioaccumulative potential	
Curing Agent Part B	
Bioaccumulative potential	No information available.
Ethyl acetate (141-78-6)	
BCF - Fish [1]	30 Leuciscus idus melanotus.
Log Pow	0.68 (25 °C, pH 7)
Bioaccumulative potential	Low bioaccumulation potential.
	omers and homologues (9016-87-9)
Bioaccumulative potential	Not expected to bioaccumulate.
Diphenylmethane-4,4'-di-isocyana	te (101-68-8)
BCF - Fish [1]	200 Cyprinus carpio (OECD 305 E method)
Log Pow	4.51 (22 °C, pH ≈ 7), (OECD 117 method)
Bioaccumulative potential	Low bioaccumulation potential.
o-(p-isocyanatobenzyl)phenyl isoc	cyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)
o-(p-isocyanatobenzyl)phenyl isoc BCF - Fish [1]	cyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)
BCF - Fish [1]	
BCF - Fish [1] 2.4 Mobility in soil	
BCF - Fish [1] 2.4 Mobility in soil Curing Agent Part B	
BCF - Fish [1] 2.4 Mobility in soil Curing Agent Part B Ecology - soil	200
BCF - Fish [1] 2.4 Mobility in soil Curing Agent Part B Ecology - soil Ethyl acetate (141-78-6)	200
BCF - Fish [1] 2.4 Mobility in soil Curing Agent Part B Ecology - soil Ethyl acetate (141-78-6) Ecology - soil	No information available.
BCF - Fish [1] 2.4 Mobility in soil Curing Agent Part B Ecology - soil Ethyl acetate (141-78-6) Ecology - soil	No information available. Miscible with water.
BCF - Fish [1] 2.4 Mobility in soil Curing Agent Part B Ecology - soil Ethyl acetate (141-78-6) Ecology - soil Diphenylmethane Diisocyanate, is Ecology - soil	No information available. Miscible with water. omers and homologues (9016-87-9) Not volatile.
BCF - Fish [1] 2.4 Mobility in soil Curing Agent Part B Ecology - soil Ethyl acetate (141-78-6) Ecology - soil Diphenylmethane Diisocyanate, is Ecology - soil Diphenylmethane-4,4'-di-isocyanate	No information available. Miscible with water. omers and homologues (9016-87-9) Not volatile.
BCF - Fish [1] 2.4 Mobility in soil Curing Agent Part B Ecology - soil Ethyl acetate (141-78-6) Ecology - soil Diphenylmethane Diisocyanate, is Ecology - soil Diphenylmethane-4,4'-di-isocyanate	No information available. Miscible with water. omers and homologues (9016-87-9) Not volatile. te (101-68-8)



SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



DOCUMENT NO.

A 262 MSDS



MATERIAL SAFETY DATA SHEET

12.5 Results of PBT and vPvB assessment

Curing Agent Part B

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6 Other adverse effects

No additional information.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal Dispose in a safe manner in accordance with local/national regulations. Empty recommendations

containers should be taken to an approved waste handling site for recycling or disposal. The correct waste code must be determined by the producer of the

waste, based on how the waste has been produced.

Handle empty containers with care because residual vapours are flammable. Additional information

Ecology - waste materials Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA

14.1 UN number

UN-No. (ADR) UN 1133 UN-No. (IMDG) UN 1133 UN-No. (IATA) UN 1133

14.2 UN proper shipping name

Proper Shipping Name ADHESIVES Proper Shipping Name (IMDG) **ADHESIVES** Proper Shipping Name (IATA) **ADHESIVES**

Transport document description UN 1133 ADHESIVES, 3, II, (D/E)

(ADR)

Transport document description UN 1133 ADHESIVES, 3, II

(IMDG)

Transport document description UN 1133 ADHESIVES, 3, II

(IATA)

14.3 Transport hazard class(es)

Transport hazard class(es) (ADR) 3

Hazard labels



IMDG

Transport hazard class(es) (IMDG) 3

Danger labels (IMDG)



SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.





IATA

Transport hazard class(es) (IATA) 3 Danger labels (IATA)



14.4 Packing group

Packing group Ш Packing group (IMDG) Ш Packing group (IATA) Ш

14.5 Environmental hazards

Dangerous for the environment No Marine pollutant No

Other information No supplementary information available

14.6 Special precautions for user

Overland transport

Tunnel restriction code (ADR) D/E

Transport by sea

No data available

Air transport

No data available

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

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU-Regulations

Authorisations and/or restrictions on use (Annex XVII):		
Reference code	Applicable on	Entry title or description
3	Curing Agent Part B; Ethyl acetate; Di- phenylmethane Diisocyanate, isomers and homologues	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008
3(a)	Curing Agent Part B; Ethyl acetate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	Curing Agent Part B; Ethyl acetate; Di- phenylmethane Diisocyanate, isomers and	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.





	homologues	3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
40	Curing Agent Part B; Ethyl acetate	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.
56	Diphenylmethane Diisocyanate, isomers and homologues; Diphenylmethane-4,4'-di- isocyanate; o-(p- isocyanatobenzyl)phenyl isocyanate; diphenylmethane- 2,4'- diisocyanate; 2,2'- methylenediphenyl diisocyanate; diphenylmethane-2,2'- diisocyanate	Methylenediphenyl diisocyanate (MDI)
56(a)	Diphenylmethane-4,4'-di-isocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 4,4'- Methylenediphenyl diisocyanate
56(b)	o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'- diisocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 2,4'- Methylenediphenyl diisocyanate
56(c)	2,2'-methylenediphenyl diisocyanate; diphenylmethane- 2,2'-diisocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 2,2'- Methylenediphenyl diisocyanate

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2 National regulations

No additional information available.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:	
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service number
CLP	Classification, Labelling and Packaging



Other information

DESCRIPTION

SERLS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.



MATERIAL SAFETY DATA SHEET

		i
DNEL	Derived No Effect Level	
EC	European Community	
EC50	Effective Concentration 50%	
EN	European Norm	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IBC	Intermediate Bulk Container	
IMDG	International Maritime Dangerous Goods Code	
Koc	Soil adsorption coefficient	
LC50	Lethal Concentration 50%	
LD50	Lethal Dose 50%	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational exposure limit	
NOAEL	No Observed Adverse Effect Level	
NOEC	No Observed Effect Concentration	
PBT	Persistent, Bioaccumulative and Toxic	
OEL	Occupational exposure limit	
NOAEL	No Observed Adverse Effect Level	
NOEC	No Observed Effect Concentration	
PBT	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No Effect Concentration	
QSAR	Quantitative Structure-Activity Relationship	
REACH	Registration, Evaluation and Authorisation of CHemicals	
STEL	Short Term Exposure Limit	
TWA	Time Weighted Average	
UNxxxx	Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods	
UVCB	Unknown or Variable composition, Complex reaction products or Biological materials	
vPvB	Very Persistent and very Bioaccumulative	
WAF	Water Accommodated Fraction	

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND Data sources

> OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Classification procedure according to Regulation (EC) No. 1272/2008 [CLP]: Physical hazards: On basis of test data. Health hazards: Calculation method.

Environmental hazards: Calculation method.

Full text of H- and EUH-statements:						
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4					
Carc. 2	Carcinogenicity, Category 2					

SEALS+DIRECT 2 PART WATERPROOF CONTACT ADHESIVE



A 262 MSDS

DOCUMENT NO.



MATERIAL SAFETY DATA SHEET

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2							
Flam. Liq. 2	Flammable liquids, Category 2							
Resp. Sens. 1	Respiratory sensitisation, Category 1							
Skin Irrit. 2	Skin corrosion/irritation, Category 2							
Skin Sens. 1	Skin sensitisation, Category 1							
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2							
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis							
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation							
H225	Highly flammable liquid and vapour.							
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.							
H336	May cause drowsiness or dizziness.							
H351	Suspected of causing cancer.							
H373	May cause damage to organs through prolonged or repeated exposure.							
EUH204	Contains isocyanates. May produce an allergic reaction.							

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