SAFETY DATA SHEET

RUBBA FLEX P 2565-2P

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

1.1. Product identifier

▼*Trade name:* RUBBA FLEX P 2565-2P

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

Relevant identified uses of the substance or mixture: Adhesive
Restricted to professional users.

Use descriptors (UK REACH):

Sectors of use	**Description**
LCS "IS"	Industrial uses: Uses of substances as such or in preparations at industrial sites
Product category	**Description**
PC 1	Adhesives, Sealants
Process category	**Description**
PROC 0	Other

Uses advised against : None known.

1.3. Details of the supplier of the safety data sheet

Company and address:
The Rubber Company
TRC House, Unit 21 Romsey Industrial Estate, Greatbridge Road, Romsey
SO51 0HR Hampshire
United Kingdom
+44 (0) 1794 513 184
www.therubbercompany.com

E-mail: sales@therubbercompany.com

Revision: 03/10/2025

SDS Version: 2.0

Date of previous version: 03/10/2025 (1.0)

1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)
General public:
England - Dial 111 to reach NHS 111 (24 hour service)
Scotland - Dial 111 to reach NHS 24 (24 hour service)

Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)
See section 4 “First aid measures”.

SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.
Skin Sens. 1; H317, May cause an allergic skin reaction.
Eye Irrit. 2; H319, Causes serious eye irritation.
Resp. Sens. 1; H334, May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT SE 3; H335, May cause respiratory irritation.
Carc. 2; H351, Suspected of causing cancer.
STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):
Causes skin irritation. (H315)
May cause an allergic skin reaction. (H317)
Causes serious eye irritation. (H319)
May cause allergy or asthma symptoms or breathing difficulties if inhaled. (H334)
May cause respiratory irritation. (H335)
Suspected of causing cancer. (H351)
May cause damage to organs through prolonged or repeated exposure. (H373)

Precautionary statement(s):

General: Not applicable.

Prevention:
Do not breathe vapour/mist. (P260)
[In case of inadequate ventilation] wear respiratory protection. (P284)

Response:
IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+P340)
Get medical advice/attention if you feel unwell. (P314)

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

Disposal:
Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances: 4,4'-Methylenediphenyl diisocyanate, oligomers
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Isocyanic acid, polymethylenepolyphenylene ester

Additional labelling: EUH204, Contains isocyanates. May produce an allergic reaction.
As from 24 August 2023 adequate training is required before industrial or professional use.

2.3. Other hazards

Additional warnings: This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
4,4'-Methylenediphenyl diisocyanate, oligomers	CAS No.: 25686-28-6 EC No.: 500-040-3 UK-REACH: Index No.:	15-25%	EUH204 Skin Irrit. 2, H315 (SCL: 5.00 %) Skin Sens. 1, H317 Eye Irrit. 2, H319 (SCL: 5.00 %) Acute Tox. 4, H332 Resp. Sens. 1, H334 (SCL: 0.10 %) STOT SE 3, H335 (SCL: 5.00 %) Carc. 2, H351 STOT RE 2, H373	
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	CAS No.: EC No.: 905-806-4 UK-REACH: Index No.:	10-15%	EUH204 Skin Irrit. 2, H315 (SCL: 5.00 %) Skin Sens. 1, H317 Eye Irrit. 2, H319 (SCL: 5.00 %) Acute Tox. 4, H332 Resp. Sens. 1, H334 (SCL: 0.10 %) STOT SE 3, H335 (SCL: 5.00 %) Carc. 2, H351 STOT RE 2, H373	

Isocyanic acid, polymethylenepolyphenylene ester	CAS No.: 9016-87-9 EC No.: 618-498-9 UK-REACH: Index No.:	5-10%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373	[3]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information: In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation: Upon breathing difficulties or irritation of the respiratory tract: Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

Skin contact: Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact: If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion: If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything

to drink.
In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns: Not applicable.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

IF exposed or concerned:
Get immediate medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.
Avoid inhalation of vapours from spilled material.
Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.
Avoid contact during pregnancy and while nursing.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material:	Keep only in original packaging.
Storage conditions:	5 - 30°C Dry, cool and well ventilated
Incompatible materials:	Water Bases Strong acids Strong oxidizing agents Amines

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

4,4'-Methylenediphenyl diisocyanate, oligomers
Long term exposure limit (8 hours) (mg/m^3): 0.02
Short term exposure limit (15 minutes) (mg/m^3): 0.07

1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Long term exposure limit (8 hours) (mg/m^3): 5

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Long term exposure limit (8 hours) (mg/m³): 0.02
Short term exposure limit (15 minutes) (mg/m³): 0.07

Isocyanic acid, polymethylenepolyphenylene ester
Long term exposure limit (8 hours) (mg/m³): 0.02
Short term exposure limit (15 minutes) (mg/m³): 0.07

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	750 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	133.3 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	750 µg/m³
Long term – Systemic effects - Workers	Inhalation	18.8 mg/m³
Long term – Systemic effects - General population	Oral	750 µg/kg bw/day

4,4'-Methylenediphenyl diisocyanate, oligomers

Duration:	Route of exposure:	DNEL:
Short term – Local effects - General population	Dermal	17.2 mg/cm²
Short term – Local effects - Workers	Dermal	28.7 mg/cm²
Short term – Systemic effects - General population	Dermal	25 mg/kg
Short term – Systemic effects - Workers	Dermal	50 mg/kg
Long term – Local effects - General population	Inhalation	25 µg/m³
Long term – Local effects - Workers	Inhalation	50 µg/m³
Long term – Systemic effects - General population	Inhalation	0.025 mg/m³
Long term – Systemic effects - Workers	Inhalation	0.05 mg/m³
Short term – Local effects - General population	Inhalation	50 µg/m³
Short term – Local effects - Workers	Inhalation	100 µg/m³
Short term – Systemic effects - General population	Inhalation	0.05 mg/m³
Short term – Systemic effects - Workers	Inhalation	0.1 mg/kg
Short term – Systemic effects - General population	Oral	20 mg/kg

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate

Duration:	Route of exposure:	DNEL:

Short term – Local effects - General population	Dermal	17.2 mg/cm²
Short term – Local effects - Workers	Dermal	28.7 mg/cm²
Short term – Systemic effects - General population	Dermal	25 mg/kg
Short term – Systemic effects - Workers	Dermal	50 mg/kg
Long term – Local effects - General population	Inhalation	0.025 mg/m³
Long term – Local effects - Workers	Inhalation	0.05 mg/m³
Long term – Systemic effects - General population	Inhalation	0.025 mg/m³
Long term – Systemic effects - Workers	Inhalation	0.05 mg/m³
Short term – Local effects - General population	Inhalation	0.05 mg/m³
Short term – Local effects - Workers	Inhalation	0.1 mg/m³
Short term – Systemic effects - General population	Inhalation	0.05 mg/m³
Short term – Systemic effects - Workers	Inhalation	0.1 mg/m³
Short term – Systemic effects - General population	Oral	20 mg/kg

PNEC

1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Soil		30 mg/kg

4,4'-Methylenediphenyl diisocyanate, oligomers

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		1 mg/L
Freshwater sediment		Exposure of sediment is not expected
Intermittent release (freshwater)		10 mg/L
Marine water		0.1 mg/L
Marine water sediment		Exposure of sediment is not expected
Sewage treatment plant		1 mg/L
Soil		1 mg/kg

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		1 mg/L
Freshwater sediment		0 mg/L
Intermittent release		10 mg/L
Marine water		0.1 mg/L
Marine water sediment		0 mg/L
Sewage treatment plant		1 mg/L

Soil		1 mg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures: Do not recirculate outlet air that contain the substances. The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures: Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure: Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally: 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. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (e.g. type A1 according to standard EN 14387) is used.
Use only UKCA marked protective equipment.

Respiratory Equipment:

Work situation	Type	Class	Colour	Standards	
In case of inadequate ventilation	Combination filter AXP2		Brown/White	EN14387, EN143	

Skin protection:

Recommended	Type/Category	Standards	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-	

Hand protection:

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Butyl	0,7	> 480	EN374-2, EN16523-1, EN388, EN421	
Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: Amber

Odour / Odour threshold: Characteristic

pH: 7

Density (g/cm^3): 1.1

Kinematic viscosity: No data available.

Dynamic viscosity: 2000 mPa.s

Particle characteristics: Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C): No data available

Softening point/range (°C): Does not apply to liquids.

Boiling point (°C): No data available

Vapour pressure: No data available.

Relative vapour density: No data available.

Decomposition temperature (°C):	No data available.

Data on fire and explosion hazards

Flash point (°C):	No data available.
Flammability (°C):	No data available.
Auto-ignition temperature (°C):	No data available.
Lower and upper explosion limit (% v/v):	No data available.

Solubility

Solubility in water:	Insoluble
n-octanol/water coefficient (LogKow):	No data available.
Solubility in fat (g/L):	No data available.

9.2. Other information

Sensitivity to shock:	No
Oxidizing properties:	No data available.
Other physical and chemical parameters:	No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
No data available.

10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
Extremes of temperature

10.5. Incompatible materials
Water
Bases
Strong acids
Strong oxidizing agents
Amines

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

Acute toxicity

Product/substance	4,4'-Methylenediphenyl diisocyanate, oligomers
Test method:	OECD 425
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>5000 mg/kg

Product/substance	4,4'-Methylenediphenyl diisocyanate, oligomers
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50 (4 hours)
Result:	0.31

Product/substance	4,4'-Methylenediphenyl diisocyanate, oligomers
Species:	Rat
Route of exposure:	Dermal
Result:	>9400 mg/kg

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method:	OECD 403
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50 (4 hours)
Result:	>4.4 mg/L

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>10000 mg/kg

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method:	OECD 402
Species:	Rat
Route of exposure:	Dermal
Test:	LC50
Result:	>3160 mg/kg

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate

Test method:	Directive 84/449/EEC, B.1
Species:	Rat
Route of exposure:	Oral
Test:	LC50

Result: >2000 mg/L

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Test method: OECD 403
Species: Rat
Route of exposure: Inhalation
Test: LC50
Result: 2.24 mg/L
Other information:
The test result is not adequate for the purpose of classification and labelling of the product. Based on expert judgement and available data, a modified classification and labeling for acute inhalation toxicity is justified. The generation of a respirable aerosol must be prevented!

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Test method: OECD 402
Species: Rabbit
Route of exposure: Dermal
Test: LC50
Result: >9400 mg/kg

Product/substance Isocyanic acid, polymethylenepolyphenylene ester
Species: Rat
Route of exposure: Inhalation
Test: LC50 (4 hours)
Result: 0.493 mg/L
Other information:
The test result is not adequate for the purpose of classification and labelling of the product. Based on expert judgement and available data, a modified classification and labeling for acute inhalation toxicity is justified. The generation of a respirable aerosol must be prevented!

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

Skin corrosion/irritation

Product/substance 4,4'-Methylenediphenyl diisocyanate, oligomers
Test method: OECD 404
Species: Rabbit
Result: Adverse effect observed (Irritating)

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method: OECD 404
Result: No adverse effect observed (Not irritating)

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Test method: OECD 404
Species: Rabbit

Result: Adverse effect observed (Irritating)

Causes skin irritation.

Serious eye damage/irritation

Product/substance 4,4'-Methylenediphenyl diisocyanate, oligomers
Test method: OECD 405
Species: Rabbit
Result: No adverse effect observed (Not irritating)
Other information:
The European Union (EU) has classified this substance with 'Irritating to eyes'.(R36).

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method: OECD 405
Result: Adverse effect observed (Slightly irritating)

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Test method: OECD 405
Species: Rabbit
Result: Adverse effect observed (Irritating)

Causes serious eye irritation.

Respiratory sensitisation

Product/substance 4,4'-Methylenediphenyl diisocyanate, oligomers
Test method: OECD 406
Species: Guinea pig
Result: Adverse effect observed (sensitising)

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Result: No adverse effect observed (not sensitising)
Other information:
The test result is not adequate for the purpose of classification and labelling of the product. Based on expert judgement and available data, a modified classification and labeling for acute inhalation toxicity is justified. The generation of a respirable aerosol must be prevented!

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Species: Guinea pig
Result: Adverse effect observed (sensitising)

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

Skin sensitisation

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method: OECD 406
Result: No adverse effect observed (not sensitising)

Product/substance

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Test method: OECD 406
Species: Guinea pig
Result: Adverse effect observed (sensitising)

May cause an allergic skin reaction.

Germ cell mutagenicity

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method: OECD 471
Conclusion: No adverse effect observed

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Test method: OECD 474
Species: Mouse
Conclusion: No adverse effect observed

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

Carcinogenicity

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method: OECD 451
Conclusion: No adverse effect observed

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Conclusion: No adverse effect observed
Other information:
Indication of possible carcinogenic effect in animal tests. However, the relevance of this result for humans is unclear.

Suspected of causing cancer.

Reproductive toxicity

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method: OECD 414
Conclusion: No adverse effect observed

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Conclusion: No adverse effect observed

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

STOT-single exposure

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Conclusion: No adverse effect observed
Other information:
Based on the available information there is no specific target organ toxicity to be expected.

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Conclusion: Adverse effect observed

May cause respiratory irritation.

STOT-repeated exposure

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method: OECD 410
Conclusion: No adverse effect observed
Other information:
Based on the available information there is no specific target organ toxicity to be expected.

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Test method: OECD 452
Species: Rat
Route of exposure: Inhalation
Target organ: Central nervous system
Test: NOAEL
Result: 0.2 mg/m^3
Other information:
The substance may cause damage to the olfactory epithelium after repeated inhalation. These effects are not relevant to humans at occupational levels of exposure.

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Conclusion: Aspiration hazard not applicable
Other information:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Conclusion: Aspiration hazard not applicable

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

11.2. Information on other hazards

Long term effects

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Conclusion: No adverse effect observed

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

Isocyanic acid, polymethylenepolyphenylene ester has been classified by IARC as a group 3 carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance 4,4'-Methylenediphenyl diisocyanate, oligomers
Test method: OECD 203
Species: Fish, Brachydanio rerio
Duration: 96 hours
Test: LC50
Result: >1000 mg/L
Other information:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Product/substance 4,4'-Methylenediphenyl diisocyanate, oligomers
Test method: OECD 202
Species: Daphnia, Daphnia magna
Duration: 24 hours
Test: EC50
Result: >1000 mg/L
Other information:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Product/substance 4,4'-Methylenediphenyl diisocyanate, oligomers
Test method: OECD 201
Species: Algae, Desmodesmus subspicatus
Duration: 72 hours
Test: EC50
Result: >1640 mg/L
Other information:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Product/substance 4,4'-Methylenediphenyl diisocyanate, oligomers
Test method: OECD 209
Species: Bacteria
Compartment: Activated Sludge Plant
Duration: 3 hours
Test: EC50

Result: >100 mg/L
Other information:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Other information:
Not expected to be harmful to aquatic organisms. Not expected to demonstrate chronic toxicity to aquatic organisms.

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Species: Daphnia, Daphnia magna
Compartment: Water
Duration: 48 hours
Test: EC0
Result: 0.06 mg/L

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Species: Oncorhynchus mykiss
Compartment: Water
Duration: 96 hours
Test: LCLo
Result: 0.16 mg/L

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Species: Pseudokirchneriella subcapitata
Compartment: Water
Duration: 5 days
Test: EC0
Result: 1.8 mg/L

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Species: Pseudokirchneriella subcapitata
Compartment: Water
Duration: 5 days
Test: NOEC
Result: 1.8 mg/L

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Species: Daphnia, Daphnia magna
Compartment: Water
Duration: 21 days
Test: NOEC
Result: 0.0036 mg/L

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Species: Oryzias latipes
Compartment: Water
Duration: 12 months
Test: NOEC

Result: 18.5 µg/g

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Test method: OECD 203
Species: Fish, Brachydanio rerio
Duration: 96 hours
Test: LC50
Result: >1000 mg/L
Other information:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Test method: OECD 202
Species: Daphnia, Daphnia magna
Duration: 24 hours
Test: EC50
Result: >1000 mg/L
Other information:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate
Test method: OECD 201
Species: Algae, Scenedesmus subspicatus
Duration: 72 hours
Test: EC50
Result: 1640 mg/L
Other information:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Product/substance Isocyanic acid, polymethylenepolyphenylene ester
Species: Fish
Duration: 96 hours
Test: LCLo
Result: >1000 mg/L

Product/substance Isocyanic acid, polymethylenepolyphenylene ester
Species: Daphnia, Daphnia magna
Duration: 24 hours
Test: EC0
Result: >500 mg/L

Product/substance	Isocyanic acid, polymethylenepolyphenylene ester
Test method:	OECD 201
Species:	Algae, Scenedesmus subspicatus
Duration:	72 hours
Test:	EC0
Result:	1640 mg/L

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

12.2. Persistence and degradability

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Conclusion:	Readily biodegradable

12.3. Bioaccumulative potential

Product/substance	4,4'-Methylenediphenyl diisocyanate, oligomers
Duration:	28 days
BCF:	92 - 200
Conclusion:	Bioaccumulation is not expected
Test:	OECD 305

Other information:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Conclusion:	Potential for bioaccumulation is low

Product/substance
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate

Duration:	28 days
BCF:	200
Conclusion:	No potential for bioaccumulation
Test:	OECD 305

Other information:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

Product/substance	Isocyanic acid, polymethylenepolyphenylene ester
Conclusion:	Bioaccumulation is not expected

12.4. Mobility in soil

1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
LogKoc = 5.9, Low mobility potential.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Conclusion:	No adverse effect observed

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)
HP 4 - Irritant (skin irritation and eye damage)
HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 6 - Acute toxicity
HP 7 – Carcinogenic
HP 13 – Sensitising
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

08 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances

Specific labelling

Contaminated packing

EWC code: 08 04 09*
Waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group
** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: REGULATORY INFORMATION

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

Restrictions for application:	Restricted to professional users. People under the age of 18 shall not be exposed to this product. Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.
Demands for specific education:	Use of this product requires dedicated training in work with polyurethane and epoxy products.
Control of Major Accident Hazards (COMAH) - Categories / dangerous substances:	Not applicable.
UK-REACH, Annex XVII:	Isocyanic acid, polymethylenepolyphenylene ester is subject to restrictions, UK-REACH annex XVII (entry 74).
Additional information:	Not applicable.
Sources:	The Management of Health and Safety at Work Regulations 1999. The Health and Safety at Work etc. Act 1974 Regulations 2013. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

EUH204, Contains isocyanates. May produce an allergic reaction.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H319, Causes serious eye irritation.
H332, Harmful if inhaled.
H334, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335, May cause respiratory irritation.
H351, Suspected of causing cancer.
H373, May cause damage to organs through prolonged or repeated exposure.

The full text of identified uses as mentioned in section 1

LCS "IS" = Industrial uses: Uses of substances as such or in preparations at industrial sites
PROC 0 = Other
PC 1 = Adhesives, Sealants

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

cyates

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product.
Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en