SAFETY DATA SHEET

RESION PU Cast | Isocyanaat (B)

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

1.1. Product identifier

Trade name
RESION PU Cast | Isocyanaat (B)

Product no.
PU12-B

Unique formula identifier (UFI)
10F0-80VA-R00C-HTR5

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

Relevant identified uses of the substance or mixture
Curing agent for resins

Use descriptors (REACH)

Sectors of use	**Description**
SU 12	Manufacture of plastics products, including compounding and conversion
Product category	**Description**
PC 32	Polymer Preparations and Compounds
Process category	**Description**
PROC 19	Hand-mixing with intimate contact and only PPE available
Article category	**Description**
AC 13	Plastic articles
Environmental release category	**Description**
ERC 1	Manufacture of substances
ERC 8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix
ERC 8f	Wide dispersive outdoor use resulting in inclusion into or onto a matrix

Uses advised against
None known.

1.3. Details of the supplier of the safety data sheet

Company and address
Polyestershoppen BV
Oostbaan 680
2841 ML Moordrecht
Netherlands
+31 85 0220090

Contact person
-

E-mail
info@polyestershoppen.nl

Revision
14/12/2023

SDS Version
1.0

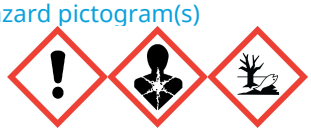
Date of previous version
30/11/2023 (1.0)

1.4. Emergency telephone number
Contact The National Poisons Information Service (dial 111, 24 h service).
See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Asp. Tox. 1; H304, May be fatal if swallowed and enters airways.
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.
Acute Tox. 4; H332, Harmful if inhaled.
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.
Aquatic Chronic 1; H410, Very toxic to aquatic life with long lasting effects.

2.2. Label elements
Hazard pictogram(s)



Signal word
Danger

Hazard statement(s)
May be fatal if swallowed and enters airways. (H304)
Causes skin irritation. (H315)
May cause an allergic skin reaction. (H317)
Causes serious eye irritation. (H319)
Harmful if inhaled. (H332)
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)
Very toxic to aquatic life with long lasting effects. (H410)

Precautionary statement(s)

General
If medical advice is needed, have product container or label at hand. (P101)
Keep out of reach of children. (P102)

Prevention
Obtain special instructions before use. (P201)
Do not breathe vapour/mist. (P260)

Response
IF SWALLOWED: Immediately call a POISON CENTER/doctor. (P301+P310)
Get medical advice/attention if you feel unwell. (P314)

Storage
Store locked up. (P405)

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

Hazardous substances
2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-

diisocyanate;diphenylmethane-4,4'-diisocyanate
Bis(isopropyl)naphthalene

Additional labelling

EUH204, Contains isocyanates. May produce an allergic reaction.
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.
As from 24 August 2023 adequate training is required before industrial or professional use.
UFI: 10F0-80VA-R00C-HTR5

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) 2018/605.

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
2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate	CAS No.: 101-68-8 EC No.: 202-966-0 UK-REACH: Index No.: 615-005-00-9	60-80%	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	[3]
Bis(isopropyl)naphthalene	CAS No.: 38640-62-9 EC No.: 254-052-6 UK-REACH: Index No.:	25-40%	Asp. Tox. 1, H304 Aquatic Chronic 1, H410 (M=1)	

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 SWALLOWED: Immediately call a POISON CENTER/doctor.
Do not induce vomiting! If vomiting occurs, keep head facing down so that vomit does not get into the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should therefore be kept under medical attention for at least 48 hours.

Burns

Not applicable.

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

This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.
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.

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.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Nitrogen oxides (NO_x)
Carbon oxides (CO / CO2)

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

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.
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 temperature

Dry, cool and well ventilated

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

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

No substances are listed in the national list of substances with an occupational exposure limit.

DNEL

2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	25 µg/m³
Long term – Local effects - Workers	Inhalation	50 µg/m³
Short term – Local effects - General population	Inhalation	50 µg/m³
Short term – Local effects - Workers	Inhalation	100 µg/m³

Bis(isopropyl)naphthalene

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	850 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	2.38 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.48 mg/m³
Long term – Systemic effects - Workers	Inhalation	8.4 mg/m³
Long term – Systemic effects - General population	Oral	850 µg/kgbw/day

PNEC

2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-

diisocyanate;diphenylmethane-4,4'-diisocyanate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		3.7 µg/L
Freshwater sediment		11.7 mg/kg
Intermittent release (freshwater)		37 µg/L
Marine water		370 ng/L
Marine water sediment		1.17 mg/kg
Soil		2.33 mg/kg

Bis(isopropyl)naphthalene

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		236 ng/L
Freshwater sediment		853 µg/kg
Marine water		23.6 ng/L
Marine water sediment		85.3 µg/kg
Predators		25 mg/kg
Sewage treatment plant		150 µg/L
Soil		171 µg/kg

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

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

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Do not recirculate outlet air that contain the substances.
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

Type	Class	Colour	Standards
A	Class 2 (medium capacity)	Brown	EN14387

Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-	

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0,2	> 240	EN374-2, EN374-3, 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
Brown

Odour / Odour threshold
Characteristic

pH
<7

Density (g/cm³)
1.2

Kinematic viscosity
Testing not relevant or not possible due to the nature of the product.

Dynamic viscosity
35 mPa.s

Particle characteristics
Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)
15

Softening point/range (waxes and pastes) (°C)
Does not apply to liquids.

Boiling point (°C)
>230

Vapour pressure
Testing not relevant or not possible due to the nature of the product.

Relative vapour density
Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°C)
Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)
141

Flammability (°C)
Testing not relevant or not possible due to the nature of the product.

Auto-ignition temperature (°C)
425

Lower and upper explosion limit (% v/v)
0.4 - 4.7

Solubility

Solubility in water
Practically insoluble

n-octanol/water coefficient (LogKow)
Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)
Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Other physical and chemical parameters
No data available.

Oxidizing properties
Testing not relevant or not possible due to the nature of the product.

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
None known.

10.5. Incompatible materials
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products
The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate
Species:	Rat
Route of exposure:	Oral
Result:	>2000 mg/kg

Product/substance	2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate

Species:	Rabbit
Route of exposure:	Dermal
Result:	>9400 mg/kg

Product/substance	Bis(isopropyl)naphthalene
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>4000 mg/kg

Product/substance	Bis(isopropyl)naphthalene
Species:	Rat
Route of exposure:	Oral
Test:	NOAEL
Result:	170 mg/kg

Product/substance	Bis(isopropyl)naphthalene
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	>4000 mg/kg

Product/substance	Bis(isopropyl)naphthalene
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50 (4 hours)
Result:	>5.6 mg/L

Harmful if inhaled.

Skin corrosion/irritation

Product/substance	2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate
Result:	Adverse effect observed (Irritating)

Causes skin irritation.

Serious eye damage/irritation

Product/substance	2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate
Result:	Adverse effect observed (Highly irritating)

Causes serious eye irritation.

Respiratory sensitisation

Product/substance	2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate
Result:	Adverse effect observed (sensitising)

Skin sensitisation

Product/substance	2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate
Result:	Adverse effect observed (sensitising)

Germ cell mutagenicity

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

Carcinogenicity

Product/substance	2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate
Route of exposure:	Inhalation

Conclusion:	Adverse effect observed

Suspected of causing cancer.

Reproductive toxicity

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

STOT-single exposure

Product/substance	2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate
Route of exposure:	Inhalation
Target organ:	Lung
Conclusion:	Adverse effect observed

May cause respiratory irritation.

STOT-repeated exposure

Product/substance	2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate
Route of exposure:	Inhalation
Target organ:	Lung
Conclusion:	Adverse effect observed

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

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

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

Other information

2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate
Test method:	OECD 209
Compartment:	Activated Sludge Plant
Duration:	3 hours
Test:	EC50
Result:	>100 mg/L

Product/substance	2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate
Test method:	OECD 202
Species:	Algae, Scenedesmus subspicatus
Duration:	72 hours
Test:	EC0
Result:	1640 mg/L

Product/substance	2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate
Test method:	OECD 202
Species:	Daphnia, Daphnia magna
Duration:	24 hours
Test:	EC50
Result:	>1000 mg/L

Product/substance	2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate
Test method:	OECD 203
Species:	Fish, Brachydanio rerio
Duration:	96 hours
Test:	LCLo
Result:	>1000 mg/L

Product/substance	Bis(isopropyl)naphthalene
Test method:	OECD 201
Species:	Algae
Duration:	72 hours
Test:	EC0
Result:	0.15 mg/L

Product/substance	Bis(isopropyl)naphthalene
Test method:	DIN 38412
Species:	Daphnia
Duration:	48 hours
Test:	EC0
Result:	0.16 mg/L

Product/substance	Bis(isopropyl)naphthalene
Test method:	OECD 202
Species:	Daphnia
Duration:	48 hours
Test:	LT50
Result:	1.7 mg/L

Product/substance	Bis(isopropyl)naphthalene
Test method:	OECD 203
Species:	Fish
Test:	LCLo
Result:	0.5 mg/L

Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

12.4. Mobility in soil
No data available.

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

12.7. Other adverse effects
This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. 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
HP 14 – Ecotoxic
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 05 01* Waste isocyanates

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

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	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(isopropyl)naphthalene)	Transport hazard class: 9 Label: 9 Classification code: M6 	III	Yes	Limited quantities: 5 L Tunnel restriction code: (-) See below for additional information.
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(isopropyl)naphthalene)	Transport hazard class: 9 Label: 9 Classification code: M6 	III	Yes	Limited quantities: 5 L EmS: F-A S-F See below for additional information.
IATA	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(isopropyl)naphthalene)	Transport hazard class: 9 Label: 9 Classification code: M6 	III	Yes	See below for additional information.

* Packing group
** Environmental hazards

Additional information

These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR/IMDG/IATA provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (ADR, IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA).
-
ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.
This product is within scope of the regulations of transport of dangerous goods.

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
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.

SEVESO - Categories / dangerous substances
E1 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 100 tonnes / (upper-tier): 200 tonnes

REACH, Annex XVII
RESION PU Cast | Isocyanaat (B) is subject to UK-REACH restrictions, UK-REACH annex XVII (entry 3).
2,2'-methylenediphenyl diisocyanate;o-(p-isocyanatobenzyl)phenyl isocyanate;4,4'-methylenediphenyl diisocyanate;methylenediphenyl diisocyanate;diphenylmethane-2,4'-diisocyanate;diphenylmethane-2,2'-diisocyanate;diphenylmethane-4,4'-diisocyanate is subject to restrictions, UK-REACH annex XVII (entry 56 ; 74).

Additional information
Tactile warning.
If this product is sold in retail, it must be delivered with child-resistant fastening.

Sources
The Management of Health and Safety at Work Regulations 1999.
The Health and Safety at Work etc. Act 1974 Regulations 2013.
Control of Major Accident Hazards (COMAH) Regulations 2015.
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.
H304, May be fatal if swallowed and enters airways.
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.
H410, Very toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

SU 12 = Manufacture of plastics products, including compounding and conversion
PROC 19 = Hand-mixing with intimate contact and only PPE available
PC 32 = Polymer Preparations and Compounds
AC 13 = Plastic articles
ERC 1 = Manufacture of substances
ERC 8c = Wide dispersive indoor use resulting in inclusion into or onto a matrix
ERC 8f = Wide dispersive outdoor use resulting in inclusion into or onto a matrix

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
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 classification of the substance/mixture in regard of environmental 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

H.A.B.

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue 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