

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Revision date: 13/05/2024 Supersedes version of: 14/12/2022 Version: 13.1

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

1.1. Product identifier

Product form : Mixture

Trade name : Paracol PU D4 Normal

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

DL CHEMICALS N.V. Roterijstraat 201-203 B-8793 Waregem Belgium

T + 32 56 62 70 51, F + 32 56 60 95 68 MSDS@dl-chem.com, www.dl-chem.com

1.4. Emergency telephone number

Emergency number : + 32 56 62 70 51

Only available during office hours.

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (inhalation:vapour) Category 4

Skin corrosion/irritation, Category 2

H315
Serious eye damage/eye irritation, Category 2

Respiratory sensitisation, Category 1

Skin sensitisation, Category 1

Carcinogenicity, Category 2

Specific target organ toxicity – Single exposure,

H335

Category 3, Respiratory tract irritation

Specific target organ toxicity – Repeated exposure, H373

Category 2

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Hazardous to the aquatic environment - Chronic

H411

Hazard, Category 2

Full text of H- and EUH-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)





GHS07

CLP Signal word

: Danger

: o-(p-isocyanatobenzyl)phenyl isocyanate; 4,4'-methylenediphenyl diisocyanate; Contains

Prepolymer based on aromatic polyisocyanate

Hazard statements (CLP) : Causes skin irritation.

> May cause an allergic skin reaction. Causes serious eye irritation.

Harmful if inhaled.

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

May cause respiratory irritation. Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : Do not breathe vapours, spray.

> Wash hands thoroughly after handling. Avoid release to the environment.

Wear protective gloves, protective clothing, eye protection, face protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. : As from 24 August 2023 adequate training is required before industrial or

Extra phrases

professional use.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII Mixture does not contain substance (s) classified as PBT or vPvB in concentrations above 0,1%. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1), 4,4'-methylenediphenyl diisocyanate (101-68-8), diethylmethylbenzenediamine (68479-98-1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1), 4,4'-methylenediphenyl diisocyanate (101-68-8), diethylmethylbenzenediamine (68479-98-1)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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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]
Prepolymer based on aromatic polyisocyanate	CAS-No.: 99784-49-3	≥ 50 - < 75	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373
o-(p-isocyanatobenzyl)phenyl isocyanate substance with a Community workplace exposure limit	CAS-No.: 5873-54-1 EC-No.: 227-534-9 EC Index-No.: 615-005- 00-9 REACH-no: 01- 2119480143-45	≥ 10 - < 25	Acute Tox. 4 (Inhalation), H332 (ATE=1,5 mg/l/4h) 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
4,4'-methylenediphenyl diisocyanate	CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005- 00-9 REACH-no: 01- 2119457014-47	≥ 10 - < 25	Acute Tox. 4 (Inhalation), H332 (ATE=1,5 mg/l/4h) 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
diethylmethylbenzenediamine	CAS-No.: 68479-98-1 EC-No.: 270-877-4 EC Index-No.: 612-130- 00-0 REACH-no: 01- 2119486805-25	≥ 0,5 - < 1	Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Oral), H302 (ATE=472 mg/kg bodyweight) STOT RE 2, H373 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:				
Name	Product identifier	Specific concentration limits (%)		
o-(p-isocyanatobenzyl)phenyl isocyanate	CAS-No.: 5873-54-1 EC-No.: 227-534-9 EC Index-No.: 615-005- 00-9 REACH-no: 01- 2119480143-45	$(0,1 \le C < 100)$ Resp. Sens. 1, H334 $(5 \le C < 100)$ STOT SE 3, H335 $(5 \le C < 100)$ Skin Irrit. 2, H315 $(5 \le C < 100)$ Eye Irrit. 2, H319		

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Specific concentration limits:				
Name	Product identifier	Specific concentration limits (%)		
4,4'-methylenediphenyl diisocyanate	CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005- 00-9 REACH-no: 01- 2119457014-47	$(0,1 \le C < 100)$ Resp. Sens. 1, H334 (5 $\le C < 100)$ STOT SE 3, H335 (5 $\le C < 100)$ Skin Irrit. 2, H315 (5 $\le C < 100)$ Eye Irrit. 2, H319		

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

-	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Suspected of causing cancer.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Respiratory problems: consult a doctor/medical service. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
First-aid measures after skin contact	: Wash with plenty of water/ Seek medical attention if ill effect or irritation develops. Wash with plenty of water/ Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs:
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Seek medical attention immediately. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects	: Causes damage to organs.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract and to other mucous membranes. Coughing, sneezes. Sore throat. Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin
	reaction. May cause respiratory irritation.
Symptoms/effects after skin contact	: Rednesses. Causes skin irritation.
Symptoms/effects after eye contact	: Redness, pain. Causes serious eye irritation.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. May cause gastric irritation. Do not use for products which come into contact

with the food stuffs.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water fog. Powder. Foam. Dry powder. Carbon dioxide. Water spray. Sand. Unsuitable extinguishing media

: None known. Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : May release harmful fumes.

fire

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire. Evacuate unnecessary

personnel. Do not breathe fumes from fires or vapours from decomposition.

Firefighting instructions : Cool down the containers exposed to heat with a water spray. Use water spray

or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including

respiratory protection.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Respiratory protection equipment may be necessary. Equip cleanup crew with

proper protection.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Wash non-

recoverable remainder with large amounts of water. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

Store away from other materials.

6.4. Reference to other sections

Concerning disposal elimination after cleaning, see section 13. Concerning personal protective equipment to use, see section 8. See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : No open flames. No smoking. Use good housekeeping practices to avoid

rendering dust airborne. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Use only

outdoors or in a well-ventilated area. Avoid breathing

dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. Do

not handle until all safety precautions have been read and understood.

Handling temperature : 5 – 35 °C

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Hygiene measures

: Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in tightly closed, properly ventilated containers away from heat, sparks,

open flame. Keep only in the original container in a cool well ventilated place. Keep only in the original container in a cool, well ventilated place away from :

Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : 5 – 25 °C

7.3. Specific end use(s)

Adhesives, sealants.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)			
EU - Indicative Occupational Exposure Limi	EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	0,005 ppm		
4,4'-methylenediphenyl diisocyanate (101-68-8)			
Ireland - Occupational Exposure Limits			
OEL TWA	0,02 mg/m ³		
OEL STEL	0,07 mg/m ³		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA)	0,02 mg/m ³		
WEL STEL (OEL STEL)	0,07 mg/m³		

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

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Local exhaust and general ventilation must be adequate to meet exposure standards.

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8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

Eye protection				
Туре	Field of application	Characteristics	Standard	
Safety glasses	Droplet	With side shields		

8.2.2.2. Skin protection

Skin and body protection:

If skin contact or contamination of clothing is possible, protective clothing should be worn. Wear protective clothing

Hand protection:

Wear protective gloves.

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR), Chloroprene rubber (CR), Butyl rubber, Fluoroelastomer (FKM)	6 (> 480 minutes)	≥ 0.5		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit. In case of inadequate ventilation wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Consumer exposure controls:

For professional use only.

Other information:

Do not eat, drink or smoke when using this product. Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

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Colour : Transparent.

Appearance : Viscous. Paste.

Odour : characteristic.

Odour threshold : Not available

Melting point : Not applicable

Freezing point : Does not apply

Softening point : Not applicable.

Boiling point : Decomposes before boiling

Flammability : Non flammable.

Explosive properties : Product is not explosive.

Oxidising properties : Non oxidizing material according to EC criteria.

Lower explosion limit: Not applicableUpper explosion limit: Not applicableFlash point: > 100 °C (ISO 3679)Auto-ignition temperature: > 200 °C (calculated value)

Decomposition temperature : Not available pH : insoluble in water Viscosity, kinematic : 5818,182 mm²/s

Viscosity, dynamic : 6400 mPa·s (Brookfield spindle 96, 1 rpm)

Non-Newtonian liquid : Thixotropic behaviour

Solubility : Water: Material insoluble in water Partition coefficient n-octanol/water (Log : Not applicable for preparations

14.

Kow)
Partition coefficient n-octanol/water (Log

Pow)

Vapour pressure : Not applicable
Vapour pressure at 50°C : Not applicable
Density : 1,1 g/cm³
Relative density : 1,1

Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

o-(p-isocyanatobenzyl)phenyl isocyanate		
Boiling point	> 300 °C Decomposes before boiling	
Flash point	208 °C (closed cup)	
Auto-ignition temperature	> 601	
Vapour pressure	0,0014 hPa at 20°C	

: Not applicable for preparations

4,4'-methylenediphenyl diisocyanate	
Vapour pressure	< 0,00001 hPa 20°C

diethylmethylbenzenediamine	
Boiling point	308,3 °C
Flash point	156 °C
Auto-ignition temperature	420 - 440 °C
Vapour pressure	32,4 Pa at 20 °C

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

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9.2.2. Other safety characteristics

VOC content : < 25 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use. Not established.

10.3. Possibility of hazardous reactions

Reacts violently with: Strong acids, strong bases and strong oxidants. Not established.

10.4. Conditions to avoid

Moisture. Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Inhalation:vapour: Harmful if inhaled

Acute toxicity (innaiation)	: Innaiation:vapour: Harmful if Innaied.				
Paracol PU D4 Normal					
E CLP (vapours) 11,771 mg/l/4h					
o-(p-isocyanatobenzyl)phenyl isocy	anate (5873-54-1)				
LD50 oral rat	> 2000 mg/kg				
LD50 dermal rabbit	> 9400 mg/kg (OECD 402 method)				
LC50 Inhalation - Rat (Dust/Mist)	1,5 mg/l/4h				
4,4'-methylenediphenyl diisocyanat	e (101-68-8)				
LD50 oral rat	> 2000 mg/kg				
LD50 dermal rabbit	> 9400 mg/kg (OECD 402 method)				
LC50 Inhalation - Rat (Dust/Mist)	1,5 mg/l/4h (OECD 403 method)				
diethylmethylbenzenediamine (68479-98-1)					
LD50 oral rat	472 – 598 mg/kg				
LD50 dermal	1100 mg/kg				
Prepolymer based on aromatic polyisocyanate (99784-49-3)					
LD50 oral rat	> 2000 mg/kg				

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Prepolymer based on aromatic polyisocyanate (99784-49-3)

LC50 Inhalation - Rat (Dust/Mist) LC50 Inhalation		2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ikin corrosion/irritation pH: insoluble in water causes akin irritation. pH: insoluble in water iteroius eye damage/irritation pH: insoluble in water causes are used in irritation. pH: insoluble in water tespiratory or skin sensitisation disciplination : Causes serious eye irritation. pH: insoluble in water 'May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. 'May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. 'May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. 'May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory inhaled in the classification criteria are not met in the cause of causing cause. 'May cause respiratory irritation. 'At'-methylenediphenyl diisocyanate (101-68-8) STOT-single exposure May cause respiratory irritation. 'May cause respiratory irritation. 'May cause respiratory irritation. 'May cause damage to organs through prolonged or repeated exposure. 'May cause damage to organs through prolonged or repeated exposure. 'May cause damage to organs through prolonged or repeated exposure. 'May cause damage to organs through prolonged or repeated exposure. 'May cause damage to organs through prolonged or repeated exposure. 'May cause damage to organs through prolonged or repeated exposure. 'May cause damage to organs through prolonged or repeated exposure. 'May cause damage to organs through prolonged or repeated exposure. 'May cause damage to organs through prolonged or repeated exposure. 'May cause damage to organs through prolonged or repeated exposure. 'May cause damage to organs through prolonged or repeated exposure. 'May cause damag	LD50 dermal rabbit	> 9400 mg/kg (OECD 402 method)
pH: insoluble in water Causes serious eye Irritation. pH: insoluble in water tespiratory or skin sensitisation Serm cell mutagenicity Not classified (Based on available data, the classification criteria are not met) diditional information Sased on available data, the classification criteria are not met) diditional information Suspected of causing cancer. terproductive toxicity Not classified (Based on available data, the classification criteria are not met) diditional information Sased on available data, the classification criteria are not met) diditional information Sased on available data, the classification criteria are not met) diditional information Based on available data, the classification criteria are not met) diditional information May cause respiratory irritation. O-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1) STOT-single exposure May cause respiratory irritation. May cause respiratory irritation. Prepolymer based on aromatic polyisocyanate (99784-49-3) STOT-single exposure May cause damage to organs through prolonged or repeated exposure. O-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. 4,4'-methylenediphenyl diisocyanate (101-68-8) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. 4,4'-methylenediphenyl diisocyanate (101-68-8) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Prepolymer based on aromatic polyisocyanate (99784-49-3) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. Prepolymer based on aromatic polyisocyanate (99784-49-3) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. Prepolymer based on aromatic polyisocyanate (99784-49-3) STOT-repeated exposure May cause d	LC50 Inhalation - Rat (Dust/Mist)	1,5 mg/l/4h
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Sepiratory or skin sensitisation	Serious eye damage/irritation	: Causes serious eye irritation.
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serm cell mutagenicity cerm cell cell cerm	Respiratory or skin sensitisation	 May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Additional information Based on available data, the classification criteria are not met Carcinogenicity Suspected of causing cancer. Not classified (Based on available data, the classification criteria are not met) and classification information Based on available data, the classification criteria are not met) and classification information May cause respiratory irritation. A4'-methylenediphenyl diisocyanate (5873-54-1) STOT-single exposure May cause respiratory irritation. A4'-methylenediphenyl diisocyanate (101-68-8) STOT-single exposure May cause respiratory irritation. Prepolymer based on aromatic polyisocyanate (99784-49-3) STOT-single exposure May cause respiratory irritation. Prepolymer based on aromatic polyisocyanate (5873-54-1) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. O-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. 4,4'-methylenediphenyl diisocyanate (101-68-8) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. diethylmethylbenzenediamine (68479-98-1) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. Prepolymer based on aromatic polyisocyanate (99784-49-3) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. Prepolymer based on aromatic polyisocyanate (99784-49-3) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. Spiration hazard Not classified (Based on available data, the classification criteria are not met) Sased on available data, the classification criteria are not met) Sased on available data, the classification criteria are not met) Sased on available data, the classification criteria are not met) Sased on available data, the classification criteria are not met) Sased on available data, the classification criteria are not met) Sased on available data, the classi	Germ cell mutagenicity	
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Paracol PU D4 Normal Viscosity, kinematic diethylmethylbenzenediamine (68479-98-1) Viscosity, kinematic 280,722 mm²/s	STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Paracol PU D4 Normal Viscosity, kinematic diethylmethylbenzenediamine (68479-98-1) Viscosity, kinematic 280,722 mm²/s	Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
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diethylmethylbenzenediamine (68479-98-1) Viscosity, kinematic 280,722 mm²/s	Paracol PU D4 Normal	
Viscosity, kinematic 280,722 mm²/s	Viscosity, kinematic	5818,182 mm²/s
	diethylmethylbenzenediamine (6	68479-98-1)
11.2. Information on other hazards	Viscosity, kinematic	280,722 mm²/s
	11.2. Information on other hazar	rds

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and : Harmful if inhaled. symptoms

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, : Not classified (Based on available data, the classification criteria are not met)

short-term (acute)

Hazardous to the aquatic environment, long- : Mixture Raw material. On basis of test data

term (chronic)

erm (chronic)				
o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)				
LC50 - Fish [1]	> 1000 mg/l (OECD 203 method)			
EC50 - Crustacea [1]	> 1000 mg/l (OECD 202 method)			
EC50 72h - Algae [1]	> 1640 mg/l (OECD 201 method)			
ErC50 algae	> 1640 mg/l (OECD 201 method)			
NOEC (acute)	≥ 1000 mg/kg Earthworm			
NOEC (chronic)	≥ 21 mg/l Daphnia magna (Big water flea)			
NOEC chronic crustacea	> 10 mg/l (OECD 202 method)			
4,4'-methylenediphenyl diisocyanate ((101-68-8)			
LC50 - Fish [1]	> 1000 (≥ 1000) mg/l (OECD 203 method)			
EC50 - Crustacea [1]	≥ 1000 mg/l (OECD 202 method)			
EC50 - Other aquatic organisms [1]	≥ 1640 mg/l Scenedesmus subspicatus			
EC50 - Other aquatic organisms [2]	≥ 100 mg/l Activated sludge			
EC50 72h - Algae [1]	> 1640 mg/l (OECD 201 method)			
NOEC (acute)	≥ 1000 mg/kg Earthworm			
NOEC (chronic)	≥ 10 mg/l Daphnia magna (Big water flea)			
NOEC chronic crustacea	> 10 mg/l (OECD 202 method)			
diethylmethylbenzenediamine (68479	-98-1)			
LC50 - Fish [1]	200 mg/l			
EC50 - Crustacea [1]	0,5 mg/l			
EC50 72h - Algae [1]	104 mg/l (OECD 201 method)			
NOEC chronic algae	32 mg/l (OECD 201 method)			
Prepolymer based on aromatic polyisocyanate (99784-49-3)				
EC50 - Crustacea [1]	> 100 mg/l (OECD 209 method)			
EC50 - Other aquatic organisms [2]	≥ 1000 mg/l Activated sludge			

12.2. Persistence and degradability

Paracol PU D4 Normal			
Persistence and degradability May cause long-term adverse effects in the environment.			
o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)			
Persistence and degradability	Hydrolysis in water.		
Biodegradation	28d 0 % (OECD 302C method)		

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4,4'-methylenediphenyl diisocyanate (101-68-8)		
Persistence and degradability	Hydrolysis in water.	
Biodegradation	28d 0 % (OECD 302C method)	
diethylmethylbenzenediamine (68479-98-1)		
Persistence and degradability	Rapidly degradable	
Biodegradation	0 % (OECD 301D method)	
Prepolymer based on aromatic polyisocyanate (99784-49-3)		
Persistence and degradability	Rapidly degradable	

12.3. Bioaccumulative potential

Paracol PU D4 Normal			
Partition coefficient n-octanol/water (Log Pow)	Not applicable for preparations		
Partition coefficient n-octanol/water (Log Kow)	Not applicable for preparations		
Bioaccumulative potential	Not established.		
o-(p-isocyanatobenzyl)phenyl isocyan	o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)		
Bioconcentration factor (BCF REACH)	28 d 200 0.00008 mg/L		
Partition coefficient n-octanol/water (Log Pow)	4,51 at 22°C		
4,4'-methylenediphenyl diisocyanate (101-68-8)			
Bioconcentration factor (BCF REACH)	28 d 200 0.00008 mg/L		
diethylmethylbenzenediamine (68479-98-1)			
Bioconcentration factor (BCF REACH)	13,82		
Partition coefficient n-octanol/water (Log Pow)	1,38		

12.4. Mobility in soil

diethylmethylbenzenediamine (68479-98-1)	
Surface tension	50 N/m

12.5. Results of PBT and vPvB assessment

Paracol PU D4 Normal

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

Mixture does not contain substance (s) classified as PBT or vPvB in concentrations above 0,1%.

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

·	-
Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1), 4,4'-methylenediphenyl diisocyanate (101-68-8), diethylmethylbenzenediamine (68479-98-1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1), 4,4'-methylenediphenyl diisocyanate (101-68-8), diethylmethylbenzenediamine (68479-98-1)

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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation Product/Packaging disposal recommendations

Ecological information HP Code

- : Dispose in a safe manner in accordance with local/national regulations.
- : Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- : Avoid release to the environment.
- : HP5 "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
 - HP6 "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
 - HP7 "Carcinogenic:" waste which induces cancer or increases its incidence HP4 "Irritant skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
 - HP13 "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.
 - HP14 "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
Special provision(s) applied: 375	Special provision(s) applied: 969	Special provision(s) applied : A197	Special provision(s) applied: 375	Special provision(s) applied: 375

These substances when carried in single or combination packagings 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 provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

14.1. UN number or ID number

UN 3077	UN 3077	UN 3077	UN 3077	UN 3077
14.2. UN proper ship	pping name			
ENVIRONMENTALLY	ENVIRONMENTALLY	Environmentally	ENVIRONMENTALLY	ENVIRONMENTALLY
HAZARDOUS	HAZARDOUS	hazardous substance,	HAZARDOUS	HAZARDOUS
SUBSTANCE, SOLID,	SUBSTANCE, SOLID,	solid, n.o.s.	SUBSTANCE, SOLID,	SUBSTANCE, SOLID,
N.O.S.	N.O.S.		N.O.S.	N.O.S.

Safety Data Sheet

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ADR	IMDG	IATA	ADN	RID		
Transport document do	Transport document description					
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III		
14.3. Transport haza	ard class(es)					
9	9	9	9	9		
**************************************	**************************************	**************************************	**************************************	**************************************		
14.4. Packing group						
III	III	III	III	III		
14.5. Environmental hazards						
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes		
No supplementary inform	No supplementary information available					

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5kg Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : PP12, B3 Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions : T1, BK1, BK2, BK3

(ADR)

Portable tank and bulk container special : TP33

provisions (ADR)

Tank code (ADR) : SGAV, LGBV

Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages : V13

(ADR)

unloading and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates

90 3077

Tunnel restriction code (ADR) : EAC code : 2Z

Safety Data Sheet

IBC special provisions (IMDG)

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

: B3

Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP02, P002
Special packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08

Tank instructions (IMDG) : BK1, BK2, BK3, T1

Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW23

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg

Special provisions (IATA) : A97, A158, A179, A197

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M7

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 kg
Excepted quantities (ADN) : E1
Equipment required (ADN) : PP, A
Number of blue cones/lights (ADN) : 0

Additional requirements/Remarks (ADN) : * Only in the molten state. ** For carriage in bulk see also 7.1.4.1. *** Only in

the case of transport in bulk.

Rail transport

Classification code (RID) : M7

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5kg Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : PP12, B3
Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions : T1, BK1, BK2, BK3

(RID)

Portable tank and bulk container special : TP33

provisions (RID)

Tank codes for RID tanks (RID) : SGAV, LGBV

Transport category (RID) : 3
Special provisions for carriage – Packages : W13

(RID)

Special provisions for carriage – Bulk (RID) : VC1, VC2 Special provisions for carriage - Loading, : CW13, CW31

unloading and handling (RID)

Colis express (express parcels) (RID) : CE11 Hazard identification number (RID) : 90

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14.7. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description	
74.	o-(p- isocyanatobenzyl)phen yl isocyanate ; 4,4'- methylenediphenyl diisocyanate	Diisocyanates, $O = C=N-R-N = C=0$, with R an aliphatic or aromatic hydrocarbon unit of unspecified length	

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content : < 25 g/l

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out:

o-(p-isocyanatobenzyl)phenyl isocyanate

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SECTION 16: Other information

Indication of changes:

Regulatory information. Physical and chemical properties.

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

Other information : None.

Full text of H- and EUH-statements:				
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4			
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4			
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4			
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1			
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1			
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2			
Carc. 2	Carcinogenicity, Category 2			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
H302	Harmful if swallowed.			
H312	Harmful in contact with skin.			
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.			
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting effects.			
H411	Toxic to aquatic life with long lasting effects.			
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, Respiratory tract irritation			

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Acute Tox. 4 (Inhalation:vapour)	H332	Calculation method	
Skin Irrit. 2	H315	Calculation method	
Eye Irrit. 2	H319	Calculation method	
Resp. Sens. 1	H334	Calculation method	
Skin Sens. 1	H317	Calculation method	
Carc. 2	H351	Calculation method	
STOT SE 3	H335	Calculation method	
STOT RE 2	H373	Calculation method	
Aquatic Chronic 2	H411	Expert judgement	

SDS EU DL Chemicals

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.