

# Paracol PU D4 Rapid

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Revision date: 14/12/2022 Supersedes version of: 14/12/2021 Version: 11.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Paracol PU D4 Rapid

#### 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](mailto:MSDS@dl-chem.com) - [www.dl-chem.com](http://www.dl-chem.com)

#### 1.4. Emergency telephone number

Emergency number : + 32 56 62 70 51  
Only available during office hours.

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+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 London	+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	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351

# Paracol PU D4 Rapid

## Safety Data Sheet

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

Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation H335

Specific target organ toxicity – Repeated exposure, Category 2 H373

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

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

GHS08

CLP Signal word

: Danger

Contains

: .Alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], polymer with 1,1'-methylenebis[4-isocyanatobenzene] homopolymer, 4,4'-Methylenediphenyl diisocyanate, oligomers

Hazard statements (CLP)

: 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.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P260 - Do not breathe vapours.

P264 - Wash hands thoroughly after handling.

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

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

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

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

Extra phrases

: As from 24 August 2023 adequate training is required before industrial or 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/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
diethylmethylbenzenediamine (68479-98-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

# Paracol PU D4 Rapid

## Safety Data Sheet

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

<b>Component</b>	
SALICYLIC ACID (69-72-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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 is 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 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

<b>Name</b>	<b>Product identifier</b>	<b>%</b>	<b>Classification according to Regulation (EC) No. 1272/2008 [CLP]</b>
.Alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], polymer with 1,1'-methylenebis[4-isocyanatobenzene] homopolymer	CAS-No.: 9048-57-1 Polymer	≥ 25 – < 75	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
4,4'-Methylenediphenyl diisocyanate, oligomers (Note 2)(Note C)	CAS-No.: 25686-28-6 EC-No.: 500-040-3 REACH-no: 01-2119457013-49	≥ 25 – < 50	Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=0,49 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 EUH204
N,N-dibenzyliden polyoxypropylene diamine polymer	CAS-No.: 136855-71-5	≥ 1 – < 2,5	Skin Irrit. 2, H315

# Paracol PU D4 Rapid

## Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
diethylmethylbenzenediamine (Note C)	CAS-No.: 68479-98-1 EC-No.: 270-877-4 EC Index-No.: 612-130-00-0 REACH-no: 01-2119486805-25	≥ 0,5 – < 2,5	Acute Tox. 4 (Oral), H302 (ATE=472 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
SALICYLIC ACID	CAS-No.: 69-72-7 EC-No.: 200-712-3 REACH-no: 01-2119486984-17	≥ 0,1 – < 0,5	Acute Tox. 4 (Oral), H302 (ATE=891 mg/kg bodyweight) Eye Dam. 1, H318 Repr. 2, H361d

Note 2 : The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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. Obtain medical attention if irritation persists. 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	: After contact with skin, wash immediately with plenty of water and soap. 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. Get immediate medical advice/attention. 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.
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# Paracol PU D4 Rapid

## Safety Data Sheet

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

Symptoms/effects after inhalation	: Sore throat. May cause irritation to the respiratory tract and to other mucous membranes. Cough. 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	: Redness. Causes skin irritation.
Symptoms/effects after eye contact	: Redness, pain. Causes serious eye irritation.
Symptoms/effects after ingestion	: May cause gastric irritation. Do not use for products which come into contact with the food stuffs. Swallowing of this material presents health hazard.

### 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	: Powder. Water spray. Foam. Dry powder. Carbon dioxide. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: When heated to decomposition, emits dangerous fumes.
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### 5.3. Advice for firefighters

Precautionary measures fire	: Exercise caution when fighting any chemical fire. Do not breathe fumes from fires or vapours from decomposition. Evacuate unnecessary personnel.
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

#### 6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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#### 6.1.2. For emergency responders

Protective equipment	: Equip rescue crew with proper protection. Equip cleanup crew with proper protection. Respiratory protection equipment may be necessary.
Emergency procedures	: Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. 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.
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# Paracol PU D4 Rapid

## Safety Data Sheet

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

### Methods for cleaning up

: Sweep or shovel spills into appropriate container for disposal. Dilute residues and flush. 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

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. Avoid all unnecessary exposure. 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

#### 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

: Keep only in the original container in a cool, well ventilated place away from : Heat sources. 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)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 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

# Paracol PU D4 Rapid

## Safety Data Sheet

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

### 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.

### 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			
Type	Field of application	Characteristics	Standard
Safety glasses		With side shields	EN 166

##### 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 suitable protective clothing

#### Hand protection:

Time of penetration is to be checked with the glove producer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear. Wear protective gloves.

Hand protection					
Type	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

# Paracol PU D4 Rapid

## Safety Data Sheet

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

### 8.2.3. Environmental exposure controls

#### Consumer exposure controls:

Wash hands and other exposed areas with soap and water before leaving work.

#### Other information:

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
Colour	: Transparent.
Appearance	: Viscous.
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.
Explosive limits	: Not available
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: > 100 °C (ISO 3679)
Auto-ignition temperature	: > 200 °C (calculated value)
Decomposition temperature	: Not available
pH	: insoluble in water
Viscosity, kinematic	: 6441,818 mm <sup>2</sup> /s
Viscosity, dynamic	: 7086 mPa.s
Non-Newtonian liquid	: Thixotropic behaviour
Solubility	: Water: Insoluble
Partition coefficient n-octanol/water (Log K <sub>ow</sub> )	: Not applicable for preparations
Partition coefficient n-octanol/water (Log Pow)	: Not applicable for preparations
Vapour pressure	: Not applicable
Vapour pressure at 50°C	: Not applicable
Density	: 1,1 g/cm <sup>3</sup>
Relative density	: 1,1
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### diethylmethylbenzenediamine

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

### SALICYLIC ACID

Boiling point	256 °C
Flash point	157 °C

# Paracol PU D4 Rapid

## Safety Data Sheet

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

<b>SALICYLIC ACID</b>	
Vapour pressure	0 hPa at 25 °C

<b>4,4'-Methylenediphenyl diisocyanate, oligomers</b>	
Boiling point	201 °C Decomposes before boiling
Flash point	221 °C
Auto-ignition temperature	> 464 °C
Vapour pressure	0,00592 Pa at 20 °C

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 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

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Decomposition products may be a hazard to health. 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) : Harmful if inhaled.

# Paracol PU D4 Rapid

## Safety Data Sheet

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

<b>Paracol PU D4 Rapid</b>	
ATE CLP (vapours)	11 mg/l/4h
<b>diethylmethylbenzenediamine (68479-98-1)</b>	
LD50 oral rat	472 – 598 mg/kg
LD50 dermal	1100 mg/kg
<b>SALICYLIC ACID (69-72-7)</b>	
LD50 oral rat	891 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 0,9 mg/l
<b>.Alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], polymer with 1,1'-methylenebis[4-isocyanatobenzene] homopolymer (9048-57-1 Polymer)</b>	
LD50 oral rat	> 10000 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 9400 mg/kg (OECD 402 method)
<b>4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)</b>	
LD50 oral rat	> 5000 mg/kg (OECD 425 method)
LD50 dermal rabbit	> 9400 mg/kg
Skin corrosion/irritation	: Causes skin irritation. pH: insoluble in water
Serious eye damage/irritation	: Causes serious eye irritation. pH: insoluble in water
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: May cause respiratory irritation.
<b>.Alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], polymer with 1,1'-methylenebis[4-isocyanatobenzene] homopolymer (9048-57-1 Polymer)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
<b>diethylmethylbenzenediamine (68479-98-1)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
<b>.Alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], polymer with 1,1'-methylenebis[4-isocyanatobenzene] homopolymer (9048-57-1 Polymer)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
<b>4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)</b>	
STOT-repeated exposure	May cause damage to organs (respiratory tract) through prolonged or repeated exposure (if inhaled).

# Paracol PU D4 Rapid

## Safety Data Sheet

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

Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Based on available data, the classification criteria are not met

### Paracol PU D4 Rapid

Viscosity, kinematic	6441,818 mm <sup>2</sup> /s
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### diethylmethylbenzenediamine (68479-98-1)

Viscosity, kinematic	280,722 mm <sup>2</sup> /s
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### 4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)

Viscosity, kinematic	50,2 mm <sup>2</sup> /s at 20 °C
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## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

### 11.2.2. Other information

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

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water	: Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

### 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)

### SALICYLIC ACID (69-72-7)

LC50 - Fish [1]	1380 mg/l
EC50 - Crustacea [1]	870 mg/l
EC50 72h - Algae [1]	> 100 mg/l

### .Alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], polymer with 1,1'-methylenebis[4-isocyanatobenzene] homopolymer (9048-57-1 Polymer)

LC50 - Fish [1]	1000 mg/l (OECD 203 method)
EC50 - Crustacea [1]	1000 mg/l (OECD 202 method)
NOEC chronic crustacea	10 mg/l (OECD 211 method)

### 4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)

LC50 - Fish [1]	> 1000 mg/l (OECD 203 method)
EC50 - Crustacea [1]	> 1000 mg/l (OECD 202 method)

# Paracol PU D4 Rapid

## Safety Data Sheet

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

### 4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)

EC50 72h - Algae [1]	> 1640 mg/l (OECD 201 method)
NOEC chronic crustacea	> 10 mg/l (OECD 211 method)

## 12.2. Persistence and degradability

### Paracol PU D4 Rapid

Persistence and degradability	May cause long-term adverse effects in the environment.
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### diethylmethylbenzenediamine (68479-98-1)

Biodegradation	0 % (OECD 301D method)
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### SALICYLIC ACID (69-72-7)

Persistence and degradability	Readily biodegradable.
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### .Alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], polymer with 1,1'-methylenebis[4-isocyanatobenzene] homopolymer (9048-57-1 Polymer)

Biodegradation	0 % (OECD 302C method)
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### 4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)

Persistence and degradability	Not biodegradable.
Biodegradation	0 % (OECD 302C method)

## 12.3. Bioaccumulative potential

### Paracol PU D4 Rapid

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.

### diethylmethylbenzenediamine (68479-98-1)

Bioconcentration factor (BCF REACH)	13,82
Partition coefficient n-octanol/water (Log Pow)	1,38

### .Alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], polymer with 1,1'-methylenebis[4-isocyanatobenzene] homopolymer (9048-57-1 Polymer)

Bioconcentration factor (BCF REACH)	200
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### 4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)

Bioconcentration factor (BCF REACH)	200
Partition coefficient n-octanol/water (Log Pow)	8,56

## 12.4. Mobility in soil

### diethylmethylbenzenediamine (68479-98-1)

Surface tension	50 N/m
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# Paracol PU D4 Rapid

## Safety Data Sheet

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

### SALICYLIC ACID (69-72-7)

Mobility in soil	Moderately soluble in water
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### 12.5. Results of PBT and vPvB assessment

#### Paracol PU D4 Rapid

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

### 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 legislation (waste)	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: 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.
Ecology - waste materials	: Avoid release to the environment.
HP Code	: 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
<b>14.1. UN number or ID number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

# Paracol PU D4 Rapid

## Safety Data Sheet

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

ADR	IMDG	IATA	ADN	RID
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

## 14.6. Special precautions for user

### Overland transport

Not regulated

### Transport by sea

Not regulated

### Air transport

Not regulated

### Inland waterway transport

Not regulated

### Rail transport

Not regulated

## 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.	Paracol PU D4 Rapid	Diisocyanates, O = C=N-R-N = C=O, 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)

# Paracol PU D4 Rapid

## Safety Data Sheet

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

### **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)

### **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

## **SECTION 16: Other information**

### **Indication of changes:**

Physical and chemical properties. Regulatory information.

<b>Abbreviations and acronyms:</b>	
CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose

# Paracol PU D4 Rapid

## Safety Data Sheet

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

<b>Abbreviations and acronyms:</b>	
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative

Data sources	: ECHA (European Chemicals Agency). 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. Supplier's safety documents.
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging.
Other information	: None.

<b>Full text of H- and EUH-statements:</b>	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
EUH204	Contains isocyanates. May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.

# Paracol PU D4 Rapid

## Safety Data Sheet

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

<b>Full text of H- and EUH-statements:</b>	
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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.
H361d	Suspected of damaging the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

<b>Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:</b>		
Acute Tox. 4 (Inhalation:vapour)	H332	Expert judgment
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 3	H412	Calculation method

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.