

Purocol

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product name: Purocol

1.2 Use of the substance/preparation:

Adhesive: polyurethane

1.3 Company/undertaking identification:

SOUDAL N.V.
 Everdongenlaan 18-20
 B-2300 Turnhout
 Tel: +32 14 42 42 31
 Fax: +32 14 44 39 71
 msds@soudal.com

1.4 Emergency telephone:

24h/24h: +32 14 58 45 45 (BIG)

2. Hazards identification

DSD/DPD

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC
 Harmful by inhalation
 Irritating to eyes, respiratory system and skin
 Limited evidence of a carcinogenic effect
 May cause sensitisation by inhalation and skin contact
 Harmful: danger of serious damage to health by prolonged exposure through inhalation

3. Composition/information on ingredients

Name	CAS No EINECS/ELINCS	Conc.	Classification according to DSD/DPD	Classification according to CLP	Note
methylenediphenyl diisocyanate	26447-40-5 247-714-0	C>25%	Carc. Cat. 3; R40 Xn; R20 - 48/20 Xi; R36/37/38 R42/43	Carc. 2; H351 Acute Tox. 4*; H332 STOT RE 2*; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317	(1)(2)

(1) For R-phrases and H-statements in full: see heading 16
 (2) Substance with a Community workplace exposure limit

4. First aid measures

4.1 After inhalation:

Remove the victim into fresh air
 Respiratory problems: consult a doctor/medical service

4.2 Skin contact:

Wash immediately with lots of water
 Soap may be used
 Do not apply (chemical) neutralizing agents
 Take victim to a doctor if irritation persists

4.3 Eye contact:

- Rinse immediately with plenty of water
- Do not apply neutralizing agents
- Take victim to an ophthalmologist if irritation persists

4.4 After ingestion:

- Rinse mouth with water
- Do not induce vomiting
- Consult a doctor/medical service if you feel unwell

5. Fire-fighting measures

5.1 Suitable extinguishing media:

- Water spray
- Polyvalent foam
- BC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:

- No unsuitable extinguishing media known

5.3 Special exposure hazards:

- On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide)
- Decomposes on exposure to temperature rise: release of toxic/combustible gases/vapours (hydrogen cyanide)
- Reacts slowly with water (moisture): release of carbon dioxide with pressure build-up may cause closed container to burst

5.4 Instructions:

- If exposed to fire cool the closed containers by spraying with water
- Do not move the load if exposed to heat
- Dilute toxic gases with water spray

5.5 Special protective equipment for fire-fighters:

- Gloves
- Face-shield
- Protective clothing
- Heat/fire exposure: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal precautions:

- See heading 8.2

6.2 Environmental precautions:

- Use appropriate containment to avoid environmental contamination
- See heading 13

6.3 Methods for cleaning up:

- Allow product to solidify and remove it by mechanical means
- Clean (treat) contaminated surfaces with acetone
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:

- Keep away from naked flames/heat
- Observe very strict hygiene - avoid contact
- Keep container tightly closed

7.2 Storage:

Safe storage requirements:

- Store in a dry area
- Ventilation at floor level
- Keep locked up
- Keep only in the original container
- Meet the legal requirements

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Storage temperature: 0 - 50 °C

Max. storage time: 1 year(s)

Keep away from:

water/moisture

Suitable packaging material:

polyethylene

7.3 Specific use(s):

See information supplied by the manufacturer for the identified use(s)

8. Exposure controls/Personal protection

8.1 Exposure limit values:

8.1.1 Occupational exposure:

If limit values are applicable and available these will be listed below.

Limit Value (UK)

Isocyanates, all (as -NCO)	Short time value	(-NCO) ppm 0.07(-NCO) mg/m ³
	Time-weighted average exposure limit 8 h	(-NCO) ppm 0.02(-NCO) mg/m ³

8.1.2 Sampling methods:

Product name	Test	Number	Remark
Amines, aromatic	NIOSH	2002	
Isocyanates	NIOSH	5522	
Isocyanates	NIOSH	5521	

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

Measure the concentration in the air regularly

Carry operations in the open/under local exhaust/ventilation or with respiratory protection

Personal protective equipment:

a) Respiratory protection:

Insufficient ventilation: wear respiratory protection

b) Hand protection:

Gloves

- polyethylene

c) Eye protection:

Face shield

d) Skin protection:

Protective clothing

8.2.2 Environmental exposure controls:

See headings 6.2, 6.3 and 13

9. Physical and chemical properties

9.1 General information:

Physical form	Paste
Odour	Characteristic odour
Colour	Colourless

9.2 Important health, safety and environmental information:

Flashpoint	> 165 °C
Relative density	1.1
Relative vapour density	> 2

9.3 Other information:

10. Stability and reactivity

10.1 Conditions to avoid:

Possible fire hazard

heat sources

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Stability

Stable under normal conditions

10.2 Materials to avoid:

water/moisture

10.3 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide)

Decomposes on exposure to temperature rise: release of toxic/combustible gases/vapours (hydrogen cyanide)

Reacts slowly with water (moisture): release of carbon dioxide with pressure build-up may cause closed container to burst

11. Toxicological information

11.1 Acute toxicity:

No (test) data available

11.2 Chronic toxicity:

Prolonged exposure: danger of damage to health through inhalation

No certainty about human carcinogenic properties

Not listed in mutagenicity class (EC, MAK)

Not classified as toxic to reproduction (EC)

Purocol

EC carc cat	3
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methylenediphenyl diisocyanate

EC carc cat	3
IARC - classification	3
CLP carc cat	category 2

11.3 Acute effects/symptoms:

Inhalation:

Dry/sore throat

Coughing

Irritation of the respiratory tract

Irritation of the nasal mucous membranes

Runny nose

FOLLOWING SYMPTOMS MAY APPEAR LATER:

Possible inflammation of the respiratory tract

Risk of lung oedema

Respiratory difficulties

Skin contact:

Tingling/irritation of the skin

Eye contact:

Irritation of the eye tissue

Lacrimation

Ingestion:

Irritation of the gastric/intestinal mucosa

11.4 Chronic effects:

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:

Body temperature rise

Tremor

Feeling of weakness

Headache

Skin rash/inflammation

May stain the skin

Dry skin

Risk of pneumonia

12. Ecological information

12.1 Ecotoxicity:

Reacts by forming substances having a decreased toxicity

12.2 Mobility:

Volatile organic compounds (VOC)

Solubility in/reaction with water

0.1 %

Literature reports: insoluble in water

Reacts with water

12.3 Persistence and degradability:

12.4 Bioaccumulative potential:

12.5 Results of PBT assessment:

Not applicable, based on available data

12.6 Other adverse effects:

Not dangerous for the ozone layer (1999/45/EC)

13. Disposal considerations

13.1 Provisions relating to waste:

Waste material code (Directive 2008/98/EC, decision 2001/118/EC)

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

Depending on branch of industry and production process, also other EURAL codes may be applicable

Hazardous waste according to Directive 2008/98/EC

13.2 Disposal methods:

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery

Remove waste in accordance with local and/or national regulations

13.3 Packaging/Container:

Waste material code packaging (Directive 2008/98/EC)

15 01 10* : packaging containing residues of or contaminated by dangerous substances

14. Transport information

ADR

Transport	Not subject
UN number	-
Class	
Packing group	
Hazard identification number	
Classification code	
Labels	
Environmentally hazardous substance mark	no

RID

Transport	Not subject
UN number	-
Class	
Packing group	
Classification code	
Labels	
Environmentally hazardous substance mark	no

ADN

Transport	Not subject
UN number	-
Class	
Packing group	
Classification code	

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Labels	
Environmentally hazardous substance mark	no

IMO

Transport	Not subject
UN number	-
Class	
Packing group	
Labels	
Marine pollutant	
Environmentally hazardous substance mark	no

ICAO

Transport	Not subject
UN number	-
Class	
Packing group	
Labels	
Environmentally hazardous substance mark	no

15. Regulatory information

15.1 EU Legislation:

DSD/DPD

Classification according to directives 67/548/EEC, 1999/45/EC and 2006/8/EC



Harmful

Contains: methylenediphenyl diisocyanate

R-phrases

20	Harmful by inhalation
36/37/38	Irritating to eyes, respiratory system and skin
40	Limited evidence of a carcinogenic effect
42/43	May cause sensitisation by inhalation and skin contact
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation

S-phrases

(02)	(Keep out of the reach of children)
23	Do not breathe vapour
36/37	Wear suitable protective clothing and gloves
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
(63)	(In case of accident by inhalation: remove casualty to fresh air and keep at rest)

Additional recommendations

	Contains isocyanates. See information supplied by the manufacturer.
	— 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 (i.e. type A1 according to standard EN 14387) is used.

15.2 National provisions:

The Netherlands

Waterbezwaarlijkheid (for NL) 8
 Waste identification other lists of waste materials LWCA (the Netherlands): KGA category 03

Germany
 WGK

1
 Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

15.3 Specific community rules:

REACH Annex XVII - Restriction Contains component(s) included in Annex XVII of Regulation (EC) No. 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

16. Other information

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question.

Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.

(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
 DPD Dangerous Preparation Directive
 CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Full text of any R-phrases referred to under headings 2 and 3:

R20	Harmful by inhalation
R36/37/38	Irritating to eyes, respiratory system and skin
R40	Limited evidence of a carcinogenic effect
R42/43	May cause sensitisation by inhalation and skin contact
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation

Full text of any H-statements referred to under headings 2 and 3:

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 if inhaled.

Full text of any classes referred to under headings 2 and 3:

Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure