

SAFETY DATA SHEET

Based on Directive 91/155/EEC et seq. of the
Commission of the European Communities

PUROCOL

1. Identification of the substance/preparation and the company

1.1 Identification of the substance or preparation:

CAS no. : N.A.
EC index no. : N.A. NFPA code : N.D.
EINECS no. : N.A. Molecular weight : N.A.
RTECS no. : N.A. Formula : N.A.

1.2 Company/undertaking identification:

SOUDAL N.V.
Everdongenlaan 18-20
B-2300 Turnhout
Tel. : (+32) 14-42 42 31 - Fax. : (+32) 14-44 39 71

1.3 Telephone number for emergency:

(+32) 14-58 45 45
Brandweerinformatiecentrum voor gevaarlijke stoffen (B.I.G.)
Technische Schoolstraat 43A, B-2440 Geel

2. Composition/information on ingredients

Hazardous ingredients	CAS no.	Conc in %	Hazard class.	Risks (R-phrases)
polyisocyanate	026447-40-5	> 25	Xn; N	20-36/37/38-42/43-51/53
benzyl butyl phthalate	000085-68-7	> 5	N	50/53

3. Hazards identification

- Harmful by inhalation
- Irritating to eyes, respiratory system and skin
- May cause sensitization by inhalation and skin contact

- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. First aid measures

4.1 Eye contact:

- Rinse immediately with plenty of water for 15 minutes
- Do not apply neutralizing agents
- Consult a doctor/medical service

4.2 Skin contact:

- Wash immediately with lots of water and soap for 15 minutes
- Consult a doctor/medical service

4.3 After inhalation:

- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration
- Consult a doctor/medical service

4.4 After ingestion:

- Never give water to an unconscious person
- Consult a doctor/medical service if you feel unwell

5. Fire-fighting measures

5.1 Suitable extinguishing media:

- Water spray
- Polyvalent foam
- Dry chemical powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:

- No data available

5.3 Special exposure hazards:

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

5.4 Instructions:

- Dilute toxic gases with water spray
- Take account of toxic firefighting water
- Use firefighting water moderately and contain it

5.5 Special protective equipment for firefighters:

- Heat/fire exposure: compressed air/oxygen apparatus
- Heat/fire exposure: gas-tight suit

6. Accidental release measures

6.1 Personal protection: see 8.3

6.2 Environmental precautions:

- Prevent soil and water pollution
- Substance must not be discharged into the sewer
- Contain leaking substance, pump over in suitable containers
- Plug the leak, cut off the supply
- Dam up the solid spill

6.3 Clean-up:

- Scoop solid spill into closing containers
- Carefully collect the spill/leftovers
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:

- Observe very strict hygiene - avoid contact
- Do not discharge the waste into the drain
- Remove contaminated clothing immediately
- Clean contaminated clothing

7.2 Storage:

- Meet the legal requirements
- Keep away from: heat sources

Storage temperature: N.D.

7.3 Materials for packaging:

- suitable : synthetic material
- to avoid : no data available

8. Exposure controls/Personal protection

8.1 Recommended engineering controls:

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

Sampling methods:

- Isocyanates (NIOSH 5522)
- Isocyanates (NIOSH 5521)

8.2 Exposure limits:

TLV-TWA	: -	mg/m ³	-	ppm
TLV-STEL	: -	mg/m ³	-	ppm
TLV-Ceiling	: -	mg/m ³	-	ppm
OES-LTEL	: -	mg/m ³	-	ppm
OES-STEL	: -	mg/m ³	-	ppm
MEL-LTEL	: -	mg/m ³	-	ppm
MEL-STEL	: -	mg/m ³	-	ppm
MAK	: -	mg/m ³	-	ppm
TRK	: -	mg/m ³	-	ppm
MAC-TGG 8 h	: -	mg/m ³		
MAC-TGG 15 min.	: -	mg/m ³		
MAC-Ceiling	: -	mg/m ³		
VME-8h	: -	mg/m ³	-	ppm
VLE-15 min.	: -	mg/m ³	-	ppm
GWBB-8h	: -	mg/m ³	-	ppm
GWK-15 min.	: -	mg/m ³	-	ppm
Momentary value	: -	mg/m ³	-	ppm

8.3 Personal protection:

eye protection:

- Face shield

hand protection:

- Gloves

skin protection:

- Protective clothing

materials for protective clothing:

- No data available

respiratory protection:

- No data available

9. Physical and chemical properties

9.1 Appearance (at 20°C)	:	Paste	
9.2 Odour	:	No data available	
9.3 Colour	:	Colourless	
9.4 pH value	:	N.D.	
9.5 Boiling point/boiling range	:	N.D.	°C
9.6 Melting point/melting range	:	N.D.	°C
9.7 Flashpoint	:	N.D.	°C
9.8 Auto-ignition point	:	N.D.	°C
9.9 Explosion limits	:	N.D.	vol% (°C)
9.10 Vapour pressure (at 20°C)	:	N.D.	hPa
9.11 Relative density (at 20°C)	:	1.1	
9.12 Water solubility	:	Insoluble	
9.13 Soluble in	:	Organic solvents	
9.14 Relative vapour density	:	N.D.	
9.15 Saturation concentration	:	N.D.	g/m ³
9.16 Viscosity	:	N.D.	Pa.s

10. Stability and reactivity

10.1 Stability:

- No data available

10.2 Reactivity/Hazardous decomposition products:

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

10.3 Conditions/materials to avoid:

- Heat sources

11. Toxicological information**11.1 Acute toxicity:**

BENZYL BUTYL PHTHALATE:

LD50 oral rat	: 2330	mg/kg
LD50 dermal rat	: 6700	mg/kg
LD50 dermal rabbit	: > 10000	mg/kg
LC50 inhalation rat	: > 6.7	mg/l/4 h

11.2 Chronic toxicity:

EC carc. cat.: not listed
EC muta. cat.: not listed
EC repr. cat.: not listed
Carcinogenicity (TLV): not listed

IARC classification : 3 (benzyl butyl phthalate)

Obligatory medical control (ARAB-RGPT Art. 124) (Belgium):
group: I number: 23.5

11.3 Routes of exposure: ingestion, inhalation, eyes and skin**11.4 Acute effects/symptoms:****AFTER INHALATION:**

- Harmful by inhalation
- Irritation of the respiratory tract
- Irritation of the nasal mucous membranes

AFTER SKIN CONTACT:

- Tingling/irritation of the skin

AFTER EYE CONTACT:

- Irritation of the eye tissue

11.5 Chronic effects:

- May cause sensitization by skin contact
- May cause sensitization by inhalation
- Skin rash/inflammation
- Respiratory difficulties

12. Ecological information

12.1 Mobility:

- Volatile organic compounds (VOC): 92.8 %

12.2 Biodegradation:

- soil:

T ½	:	N.D.		days
BOD ₅	:	N.D.		g O ₂ /g substance
COD	:	N.D.		g O ₂ /g substance
- water: - No data available

12.3 Bioaccumulation:

- log P_{ow} : N.D.
- BCF : N.D.

12.4 Aquatic toxicity:

BENZYL BUTYL PHTHALATE:

- LC50 (96 h) : 3.3 mg/l (SALMO GAIRDNERI/ONCORHYNCHUS MYKISS)
- EC50 (48 h) : 1.6/1.8 mg/l (DAPHNIA MAGNA)
- EC50 (96 h) : 0.13 mg/l (SELENASTRUM CAPRICORNUTUM)

12.5 Other information:

- WGK: 2 (004)
- Effect on the ozone layer : N.D.
- Waste water purification : N.D.

13. Waste disposal considerations

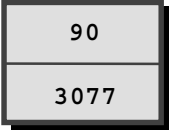
13.1 Provisions relating to waste:

- Waste code (Germany) : 55905
- Waste code (EC) : 08 04 02
- Waste material code (Flanders) : 512
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:

- Landfill or incinerate at an approved site in accordance with national and local regulations
- Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber

14. Transport information



- 14.1 **Proper shipping name:** UN 3077, Environmentally hazardous substance, solid, n.o.s.
- 14.2 **Transport by road/rail (ADR/RID):** class 9, 12c)
Danger code: 90
Danger labels on tanks: 9
on packages: 9
- 14.3 **Substance identification number (UN number):** 3077
Packing: III
- 14.4 **Maritime transport (IMDG code):** class 9 p. 9029
EMS : -
MFAG : -
Marine pollutant: P
- 14.5 **Inland navigation (ADNR):** class 9, 12c)
- 14.6 **Air freight (ICAO):** class 9
Instruction "passenger": 911/Y911
Instruction "cargo": 911
- 14.7 **Other information:**

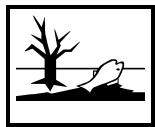
When substances and their packaging meet the conditions established by ADR/RID marginal 2901a, **only** the following prescriptions shall be complied with:
each package shall display a diamond-shaped figure with the following inscription:
- 'UN 3077'
or, in the case of different goods with different identification numbers within a single package:
- the letters 'LQ'.

15. Regulatory information

Labelling in accordance with EC directives 67/548/EEC and 1999/45/EC (**:see 16)



Harmful



Dangerous for the environment

Contains : polyisocyanate

R20 : Harmful by inhalation
R36/37/38 : Irritating to eyes, respiratory system and skin
R42/43 : May cause sensitization by inhalation and skin contact
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S(02) : (Keep out of reach of children)
S23 : Do not breathe vapour
S24 : Avoid contact with skin
S37 : Wear suitable gloves
S45 : In case of accident or if you feel unwell, seek medical advice (show the label where possible)
S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

Contains isocyanates. See information supplied by the manufacturer.

16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
***** = INTERNAL CLASSIFICATION

****** = The labelling of the substance described in this MSDS complies with the provisions of Directive 1999/45/EC of 31 May 1999, published in the Official Journal of the European Communities L 200 of 30/07/1999. This Directive replaces Directive 88/379/EEC of 7 June 1988, published in the Official Journal of the European Communities L 187 of 16/07/1988.

Member States shall apply the laws, regulations and administrative provisions referred to in article 22 of this Directive:

(a) to preparations not within the scope of Directive 91/414/EEC or Directive 98/8/EC as from 30 July 2002; and

(b) to preparations within the scope of Directive 91/414/EEC or Directive 98/8/EC as from 30 July 2004.

Exposure limits:

TLV : Threshold Limit Value - ACGIH US 1999
OES : Occupational Exposure Standards - United Kingdom 1999
MEL : Maximum Exposure Limits - United Kingdom 1999
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 1999
TRK : Technische Richtkonzentrationen - Germany 1999
MAC : Maximale aanvaarde concentratie - the Netherlands 2000
VME : Valeurs limites de Moyenne d'Exposition - France 1999
VLE : Valeurs limites d'Exposition à court terme - France 1999
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 1998
GWK : Grenswaarde kortstondige blootstelling - Belgium 1998

I : Inhalable fraction = **T** : Total dust = **E** : Einatembare Aerosolanteil
R : Respirable fraction = **A** : Alveolengängiger Aerosolanteil/Alveolar dust
C : Ceiling limit

a : aerosol **p** : poussière (dust)
d : damp (vapour) **r** : rook (fume)
du : dust **st** : stof (dust)
fa : faser (fibre) **ve** : vezel (fibre)
fi : fibre **va** : vapour
fu : fume

Chronic toxicity:

K : List of the carcinogenic substances and processes - The Netherlands 2000

WGK:

001 Internal classification

002 Classification in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 99

003 Classification based on the R phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 99

004 Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 99

MSDS established : 09-05-2000
Reference number : BIG\32585GB_rev01
Reason for revision : See 1.2 - 1.3 - 7.3 - 8.1 - 14.7 - 15 -16
Revision date : 09-01-2001
Revision number : 01