

according to regulation (EU) No. 1907/2006

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

1.1. Information on the product

Trade name: picopoly Härter

1.2. Relevant identified uses of the substance/preparation and uses that

are inadvisable No further relevant information available

Application of the substance / the preparation Dental use

1.3. Details about the supplier of the safety data sheet

Manufacturer/Supplier:

Company name: picodent GmbH

Street:

City:

D-51688 Wipperfürth

Telephone:

+49 2267 6580-0

E-Mail:

Internet:

Department for information:

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1.4. Emergency contact number: Telephone-No. +49 2267 6580-0

(07.30 am - 4.45 pm) Telephone-No. +49 171 6126850

2. Hazards identification

2.1. Classification of the substance or mixture Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4 Skin Irrit. 2 Skin corrosion/irritation: Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Resp. Sens. 1 Respiratory or skin sensitisation: Skin Sens. 1 Carcinogenicity: Carc. 2 STOT SE 3 Specific target organ toxicity - single exposure: Specific target organ toxicity - repeated exposure: STOT RE 2 Hazard Statements: Harmful if inhaled.

Causes skin irritation.
Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation.

May cause damage to organs through prolonged or repeated

exposure.









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2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling diphenylmethanediisocyante, isomeres and homolgues

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-

diisocyanate

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

diisocyanate

Signal word: Danger

Pictograms:





Hazard statements

H332 Harmful if inhaled. H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled .

H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer by inhalation.

H335 May cause respiratory irritation.

H373 May cause damage to organs (...) through prolonged or repeated exposure if inhaled.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 In case of inadequate ventilation wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulation.

Special labelling of certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3. Other hazardsSensitisation to the respiratory tract



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3. Composition/information on ingredients

3.2. Mixtures

Chemical characterization Polyisocyanate on the basis of Diphenylmethane diisocyante.

Hazardous components

CAS No	Chemical name			Quantity
	EC No Classification according to I	Index No Regulation (EC) No. 1272/2008 [4	REACH No CLP]	
9016-87-9	diphenylmethanediisocyanto	e, isomeres and homolgues		50 - 100 %
	Carc. 2, Acute Tox. 4, Skin I H351 H332 H315 H319 H33	rrit. 2, Eye Irrit. 2, Resp. Sens. 1, 4 H317 H335 H373	Skin Sens. 1, STOT SE 3, STO	T RE 2;
101-68-8	4,4'-methylenediphenyl diise	ocyanate; diphenylmethane-4,4	-diisocyanate	10 < 25 %
	202-966-0	615-005-00-9		
	Carc. 2, Acute Tox. 4, STOT H351 H332 H373 ** H319 H	RE 2, Eye Irrit. 2, STOT SE 3, SI 335 H315 H334 H317	kin Irrit. 2, Resp. Sens. 1, Skin S	Sens. 1;
5873-54-1	o-(p-isocyanatobenzyl)phen	yl isocyanate; diphenylmethane-	-2,4'-diisocyanate	2,5 < 10 %
	227-534-9 Carc. 2, Acute Tox. 4, STOT H351 H332 H373 ** H319 H	615-005-00-9 RE 2, Eye Irrit. 2, STOT SE 3, SI 335 H315 H334 H317	kin Irrit. 2, Resp. Sens. 1, Skin S	Sens. 1;

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

4. First aid measures

4.1.	Description	of	first	aid	measures
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General information Symptoms may develop several hours following exposure; medical

observation therefore necessary for at least 48 hours. Take off immediately all contaminated clothing and wash it before reuse.

After inhalation Provide fresh air. Medical treatment necessary.

After contact with skin After contact with skin, wash immediately with plenty of water and

soap. Immediately remove any contaminated clothing, shoes or

stockings. Medical treatment necessary.

After contact with eyes After eye contact: Rinse immediately carefully and thoroughly with

eye-bath or water. Consult an ophthalmologist.

After ingestion Do NOT induce vomiting. Medical treatment necessary.

4.2. Most important symptoms and effects,

both acute and delayed May cause respiratory irritation. Respiratory or skin sensitisation

4.3. Indication of any immediate medical

attention and special treatment needed Treat symptomatically.











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5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguishing powder, Carbon dioxide, Water spray jet

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance

or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide,

Isocyanates

Possible in traces: Hydrogen cyanide (hydrocyanic acid)

5.3. Advice for firefighters In case of fire: Wear self-contained breathing apparatus.

Additional information Suppress gases/vapours/mists with water spray jet. Collect

contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

6.1. Personal precautions, protective equipment

and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/

spray. Avoid contact with skin, eyes and clothes.

Use personal protection equipment.

6.2. Environmental precautionsDo not allow to enter into surface water or drains.

6.3. Methods and material for containment

and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth,

acid- or universal binding agents). Treat the recovered material as

prescribed in the section on waste disposal.

6.4. Reference to other sections Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide good room ventilation. If handled uncovered, arrangements

with local exhaust ventilation have to be used.

Do not breathe vapour. Avoid contact with skin and eyes.

Advice on protection against fire and explosion Keep away from sources of ignition. - No smoking.

7.2. Conditions for safe storage, including

any incompatibilities

Requirements for storage rooms and vessels

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C. Keep container tightly closed and

dry.

Advice on storage compatibility No special measures are necessary.

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8. Exposure controls/personal protection

8.1. Control parameters Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
-	Isocyanates, all (as -NCO) Except methyl	-	0.02		TWA (8 h)	WEL
	isocyanate	-	0.07		STEL (15 min)	WEL

DNEL/DMEL values

CAS No Substance			
DNEL type	Exposure route	Effect	Value
101-68-8 4,4'-methylenediphenyl di	isocyanate; diphenylmethane-4,	4'-diisocyanate	
Consumer DNEL, acute	oral	systemic	20 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	25 mg/kg bw/day
Consumer DNEL, acute	dermal	local	17,2 mg/cm ²
Consumer DNEL, acute	inhalation	systemic	0,05 mg/m ³
Consumer DNEL, acute	inhalation	local	0,05 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	0,025 mg/m ³
Consumer DNEL, long-term	inhalation	local	0,025 mg/m ³

PNEC values

CAS No	Substance	
Environment	Value	
9016-87-9	diphenylmethanediisocyante, isomeres and homolgues	
Soil		1001 mg/kg
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	
Freshwater		1 mg/l
Marine wate	•	0,1 mg/l
Soil		1 mg/kg

8.2. Exposure controls

Protective and hygiene measuresDo not breathe gas/fumes/vapour/spray.

Keep away from food, drink and animal feedingstuffs.

Avoid contact with skin, eyes and clothes. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection tightly fitting goggles

Hand protection Gloves should be replaced regularly, especially after extended

contact with the product. For each work-place a suitable glove type

has to be selected.

Suitable gloves type: nitrile rubber gloves (> 0,4 mm), Break through

time ca. 480 min (EN 374).

Skin protection Wear suitable protective clothing.

Respiratory protectionBreathing apparatus in case of high concentrations, short term: filter

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appliance, filter A









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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liauid Colour: brown Odour: earthy

Test method

pH-Value (at 20 °C): < 7 ISO 8975

Changes in the physical state

Melting point: not determined

Initial boiling point and boiling range: > 350 °C DIN 53171 229 °C **DIN EN 22719** Flash point:

Flammability

Solid: not applicable Gas: not applicable Lower explosion limits: not determined Upper explosion limits: not determined

> 500 °C DIN 51794 Ignition temperature:

Auto-ignition temperature

Solid: not applicable Gas: not applicable Decomposition temperature: not determined Vapour pressure: (at 25 °C) 0,0002 hPa

DIN 51757 Density (at 20 °C): 1,22 g/cm³

Water solubility: The study does not need to be conducted

because the substance is known to be

insoluble in water

Solubility in other solvents

The substance is not soluble in water.

Partition coefficient: not determined

Viscosity / dynamic: (at 20 °C) DIN 53019 145 mPa⋅s

Vapour density: not determined Evaporation rate: not determined

9.2. Other information

Solid content: not determined

No data available

10. Stability and reactivity

10.1. Reactivity No information available.

10.2. Chemical stability Polymerisation > 200°C,

Release of: Carbon dioxide (CO2).

10.3. Possibility of hazardous reactions Exothermic reaction with: Amines, Alcohols

After contact with water: Release of: Carbon dioxide (CO2). Caution!

Container under pressure.

10.4. Conditions to avoid Keep away from heat.

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10.5. Incompatible materials Exothermic reaction with: Amines Alcohols

After contact with water: Release of: Carbon dioxide (CO2).

Caution! Container under pressure.

10.6. Hazardous decomposition products Carbon monoxide. Nitrogen oxides (NOx)

Possible in traces: Hydrogen cyanide (hydrocyanic acid)

11. Toxicological information

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11.1. Information on toxicological effects

Acute toxicity
ATE mix

Harmful if inhaled. ATE (inhalativ vapour)

17,60 mg/l; ATE (inhalativ aerosol)

0,573 mg/l

CAS No	Chemical name							
	Exposure route	Dose	Species	Source	Method			
9016-87-9	diphenylmethanediisocyante, isomeres and homolgues							
	oral dermal inhalative vapour inhalative (4 h) aerosol	LD50 > 10000 r LD50 >9400 mg ATE 11 mg/l LC50 0,31 mg/l	g/kg Rabbit	OECD 401 OECD 402 OECD 403				
101-68-8	· /	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate						
	oral dermal inhalative vapour inhalative aerosol	LD50 2200 mg/ LD50 > 9400 m ATE 11 mg/l ATE 1,5 mg/l	kg Rat					
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate							
	oral dermal inhalative vapour	LD50 > 2001 m LD50 > 9400 m ATE 11 mg/l	0 0					
	inhalative (4 h) aerosol	LC50 0,387 mg	/I Rat					
Irritation an	d corrosivity	Causes skin irrita	ation.					

Irritation and corrosivity Causes skin irritation.

Causes serious eye irritation.

Sensitising effects May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

May cause an allergic skin reaction.

Carcinogenic/mutagenic/toxic effects for

reproduction

Suspected of causing cancer by inhalation.

Germ cell mutagenicity: Based on available data, the classification

criteria are not met.

Reproductive toxicity: Based on available data, the classification

criteria are not met.

STOT-single exposure May cause respiratory irritation. ((diphenylmethanediisocyante,

isomeres and homolgues); (4,4'-methylenediphenyl diisocyanate;

diphenylmethane-4,4'-diisocyanate))

STOT-repeated exposure May cause damage to organs (...) through prolonged or repeated

exposure if inhaled. ((diphenylmethanediisocyante, isomeres and homolgues); (4,4'-methylenediphenyl diisocyanate; diphenylmethane-

4,4'-diisocyanate))

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

Further information Product has not been tested. The statement is derived from the

properties of the components.

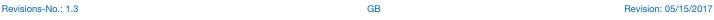
Possible sensitization in case of persons suffering from

hypersensitivity.

12. Ecological information

12.1. Toxicity

CAS No	Chemical name						
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method	
9016-87-9	diphenylmethanediisocyante, isomere	es and homolgues					
	Acute fish toxicity	LC50 >1001 mg/l	96 h	Brachydanio rerio (zebra-fish)	OECD 203		
	Acute algae toxicity	ErC50 >1640 mg/l	72 h	Scenedesmus subspicatus			
	Crustacea toxicity	NOEC 10 mg/l (Big water flea)	21 d	Daphnia magna	OECD 202		
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyal	nate; diphenylmethar	ne-2,4'-d	iisocyanate			
	Acute fish toxicity	LC50 > 1000 mg/	l 96 h		OECD 203		
	Acute algae toxicity	ErC50 > 1640 mg/	l 72 h	Scenedesmus subspicatus	OECD 201		
	Crustacea toxicity	NOEC > 10 mg/l	21 d	Daphnia magna (Big water flea)	OECD 202		
12.2. Persis	stence and degradability	The product has not been tested.					
12.3. Bioacc	cumulative potential	The product has not been tested.					
12.4. Mobili	ity in soil	The product has not been tested.					
12.5. Results of PBT and vPvB assessment		The product has not been tested.					
12.6. Other adverse effects		No information available.					
Further information		Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.					













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13. Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Contaminated packaging

Send to a hazardous waste incinerator facility under observation of official regulations. Do not allow to enter into surface water or drains. This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the

substance itself.

The Waste-Key-Numbers have to be given from the waste-producer depending on the respective trade. Therefore no information can be

stated from the manufacturer. European waste catalogue:

HP 4: Irritant - skin irritation and eye damage

HP 5: Specific Target Organ Toxicity (STOT)/ Aspiration Toxicity

HP 7: Carcinogenic HP 13: Sensitising

14. Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN) Other applicable information

(inland waterways transport) No dangerous good in sense of these transport regulations.

Marine transport (IMDG)

Other applicable information (marine transport)

No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

Other applicable information (air transport)

No dangerous good in sense of these transport regulations.

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of

Marpol and the IBC Code

not applicable

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 56: 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; 2,2'-methylenediphenyl

diisocyanate; diphenylmethane-2,2'-diisocyanate

2010/75/EU (VOC): 0,00 %

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

Additional information This mixture contains the following substances of very high concern

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(SVHC) which are included in the Candidate List according to Article 59 of REACH: none

15.2. Chemical safety assessment For this mixture a chemical safety assessment has been carried out.

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16. Other information

Changes

Indication of changes:

SECTION 2: Hazards identification; Additional information Exposure route H351; H373

SECTION 3: Composition / information on ingredients

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

Relevant H	and EUH statements (number and full text)
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 by inhalation.
H351	Suspected of causing cancer.
H373	May cause damage to organs () through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.

Contains isocyanates. May produce an allergic reaction.

Further Information

EUH204

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Identified uses

No	Short title	SU main	SU	PC	PROC	ERC	AC	Specification
1		22	-	-	4, 8a, 8b, 10, 13	8c, 8f	-	

SU main: Main user groups

PC: Product categories

ERC: Environmental release categories

SU: Sectors of use

PROC: Process categories

AC: Article categories

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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