

Safety Data Sheet

according to regulation (EU) No. 1907/2006

Printing date: 12/01/2016

picopoly Basis

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

1.1 Information on the product

Trade name: picopoly Basis

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: Lüdenscheider Str. 24-26
City: D-51688 Wipperfürth
Telephone: +49 2267 6580-0
E-Mail: picodent@picodent.de
Internet: www.picodent.de
Department for information: picodent GmbH
Fax-No. +49 2267 6580-31
Telephone-No. +49 2267 6580-0

1.4 Emergency contact number:

(07.30 am - 4.45 pm)

Telephone-No. +49 2267 6580-0
Telephone-No. +49 171 6126850

2. Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Hazardous to the aquatic environment:

Aquatic Chronic 2

Hazard Statements:

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Pictograms:



Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

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

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3. Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Polyol formula with fillers

Hazardous components

CAS No	Chemical name	Quantity
EC No	Index No	REACH No
Classification according to Regulation (EC) No. 1272/2008 [CLP]		
38640-62-9	bis(isopropyl)naphthalene Asp. Tox. 1, Aquatic Chronic 1; H304 H410	2,5 < 10 %
25214-63-5	ethylenediamine, propoxylated Eye Irrit. 2; H319	2,5 < 10 %
	01-2119471485-32	
6846-50-0	1-Isopropyl-2, 2-dimethyltrimethylendiisobutyrat Aquatic Chronic 3; H412	2,5 < 10 %
25322-69-4	Polypropylenglykol Acute Tox. 4; H302	0,1 < 2,5 %

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

4. First aid measures

4.1. Description of first aid measures

General information

Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Take off all contaminated clothing immediately.

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

Medical treatment necessary.

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

No information available.

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

Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Extinguishing powder, Carbon dioxide, Atomized water.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide
Hazardous decomposition products

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5.3. Advice for firefighters Additional information

In case of fire: Wear self-contained breathing apparatus. 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 precautions

Do 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.

Advice on protection against fire and explosion

No special measures are necessary.

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.

Advice on storage compatibility

Do not store together with:
Oxidising agent
food
Alkali (lye)

8. Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Protective and hygiene measures

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

nitrile rubber gloves (> 0,2 mm), Break through time ca. 480 min (EN 374). Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

Skin protection

Wear suitable protective clothing.

Respiratory protection

none

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: whitish
 Odour: characteristic

Test method

pH-Value:	not determined	
Changes in the physical state		
Melting point:	not determined	
Initial boiling point and boiling range:	> 200 °C	DIN 53171
Flash point:	not applicable	
Flammability		
Solid:	not applicable	
Gas:	not applicable	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Auto-ignition temperature		
Solid:	not applicable	
Gas:	not applicable	
Decomposition temperature:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	1,68 g/cm ³	
Water solubility:	partially soluble	
Partition coefficient:	not determined	
Viscosity / dynamic: (at 25 °C)	1400 mPa·s	ISO 9371
Vapour density:	not determined	
Evaporation rate:	not determined	

9.2. Other information

Solid content: not determined

10. Stability and reactivity

- | | |
|---|---|
| 10.1. Reactivity | No hazardous reaction when handled and stored according to provisions. |
| 10.2. Chemical stability | The product is stable under storage at normal ambient temperatures. |
| 10.3. Possibility of hazardous reactions | No known hazardous reactions. |
| 10.4. Conditions to avoid | Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C. |
| 10.5. Incompatible materials | Oxidising agent |
| 10.6. Hazardous decomposition products | In case of fire may be liberated: Carbon monoxide. Carbon dioxide
Hazardous decomposition products Nitrogen oxides (NOx) |

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11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

CAS No	Chemical name	Exposure route	Dose	Species	Source
38640-62-9	bis(isopropyl)naphthalene	oral	LD50 > 4000 mg/kg	Rat	
		dermal	LD50 > 4000 mg/kg	Rat	
		inhalative (4 h) vapour	LC50 5,6 mg/l	Rat	OECD 403 (Aerosol)
25322-69-4	Polypropylenglykol	oral	ATE 500 mg/kg		

Irritation and corrosivity

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

Sensitising effects

Based on available data, the classification criteria are not met.
Possible sensitization in case of persons suffering from hypersensitivity .

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

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.

12. Ecological information

12.1. Toxicity

CAS No	Chemical name	Aquatic toxicity	Dose	[h] [d]	Species	Source
38640-62-9	bis(isopropyl)naphthalene	Crustacea toxicity	NOEC 0,013 mg/l	21 d	Daphnia magna (Big water flea)	OECD 202, part 2

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.
Harmful to fish.

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

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Smaller quantities and/or residues: May be disposed of in household waste landfill.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

14. Transport information

Land transport (ADR/RID)

14.1. UN number:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Bis(isopropyl)naphthalin)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9

Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

E

Inland waterways transport (ADN)

14.1. UN number:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Bis(isopropyl)naphthalin)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9

Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Marine transport (IMDG)

14.1. UN number:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Bis(isopropyl)naphthalin)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9

Special Provisions:

274, 335, 969

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-F

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Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(isopropyl)naphthalin)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Special Provisions:	A97 A158 A197
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y964
Excepted quantity:	E1
IATA-packing instructions - Passenger:	964
IATA-max. quantity - Passenger:	450 L
IATA-packing instructions - Cargo:	964
IATA-max. quantity - Cargo:	450 L
14.5. Environmental hazards	ENVIRONMENTALLY HAZARDOUS: yes
Danger releasing substance:	(Bis(isopropyl)naphthalin)
14.6. Special precautions for user	
Hazard identification number (Kemler No.):	90
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

2010/75/EU (VOC): 0,40 %

National regulatory information

Water contaminating class (D): 3 - highly water contaminating

Additional information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: : none

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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16. Other information

Changes

Indication of changes

SECTION 3: Composition / information on ingredients

SECTION 9: Physical and chemical properties

SECTION 14: Transport information

SECTION 15: Regulatory information

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)

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Further Information

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.

(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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picopoly Farbpaste

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

1.1 Information on the product

Trade name: picopoly Farbpaste

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:

Lüdenscheider Str. 24-26

City:

D-51688 Wipperfürth

Telephone:

+49 2267 6580-0

E-Mail:

picodent@picodent.de

Internet:

www.picodent.de

Department for information:

picodent GmbH

Fax-No. +49 2267 6580-31

Telephone-No. +49 2267 6580-0

1.4 Emergency contact number:
(07.30 am - 4.45 pm)

Telephone-No. +49 2267 6580-0

Telephone-No. +49 171 6126850

2. Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Regulation (EC) No. 1272/2008

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection.

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

P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

3. Composition/information on ingredients

3.2. Mixtures

Chemical characterization preparation of pigments

4. First aid measures

4.1. Description of first aid measures

General information

Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Take off all contaminated clothing immediately.

After inhalation

Provide fresh air. Medical treatment necessary.

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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 No information available.

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

5. Fire-fighting measures

5.1. Extinguishing media
Suitable extinguishing media Foam. Extinguishing powder, Carbon dioxide, Atomized water.

5.2. Special hazards arising from the substance or mixture In case of fire may be liberated: Carbon monoxide. Carbon dioxide
Hazardous decomposition products

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 precautions Do 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).

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.

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

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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.

Advice on storage compatibility

Do not store together with:
food

8. Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Protective and hygiene measures

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. tightly fitting goggles

Eye/face protection

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.

Skin protection

Wear suitable protective clothing.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:

liquid

Colour:

various, depending on coloration

Odour:

characteristic

pH-Value:

not determined

Test method

Changes in the physical state

Melting point:

not determined

Initial boiling point and boiling range:

> 300 °C

DIN 53171

Flash point:

> 200 °C

Flammability

Solid:

not applicable

Gas:

not applicable

Lower explosion limits:

not determined

Upper explosion limits:

not determined

Ignition temperature:

450 °C

DIN 51794

Auto-ignition temperature

Solid:

not applicable

Gas:

not applicable

Decomposition temperature:

not determined

Vapour pressure:

not determined

Density (at 20 °C):

> 1,8 g/cm³

ISO 2811

Water solubility:

partially miscible

Partition coefficient:

not determined

Vapour density:

not determined

Evaporation rate:

not determined

9.2. Other information

Solid content:

not determined

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picopoly Farbpaste

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10. Stability and reactivity

10.1. Reactivity	No hazardous reaction when handled and stored according to provisions.
10.2. Chemical stability	The product is stable under storage at normal ambient temperatures.
10.3. Possibility of hazardous reactions	No known hazardous reactions.
10.4. Conditions to avoid	Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C.
10.5. Incompatible materials	No information available.
10.6. Hazardous decomposition products	No known hazardous decomposition products.

11. Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	Based on available data, the classification criteria are not met.
Irritation and corrosivity	Based on available data, the classification criteria are not met.
Sensitising effects	Based on available data, the classification criteria are not met. No information available.
Carcinogenic/mutagenic/toxic effects for reproduction	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
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.

12. Ecological information

12.2. Persistence and degradability	The product has not been tested.
12.3. Bioaccumulative potential	The product has not been tested.
12.4. Mobility 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.

13. Disposal considerations

13.1. Waste treatment methods	
Advice on disposal	Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.
Contaminated packaging	This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

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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

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

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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16. Other information

Changes

Indication of changes

SECTION 9: Physical and chemical properties

SECTION 15: Regulatory information

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%

Further Information

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.

(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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1. Identification of the substance/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: Lüdenscheider Str. 24-26
City: D-51688 Wipperfürth
Telephone: +49 2267 6580-0
E-Mail: picodent@picodent.de
Internet: www.picodent.de
Department for information: picodent GmbH
Fax-No. +49 2267 6580-31
Telephone-No. +49 2267 6580-0

1.4. Emergency contact number: (07.30 am - 4.45 pm)

Telephone-No. +49 2267 6580-0
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 corrosion/irritation:	Skin Irrit. 2
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
Specific target organ toxicity - single exposure:	STOT SE 3
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

diphenylmethanediisocyanate, isomeres and homologues
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 hazards

Sensitisation to the respiratory tract

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3. Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Polyisocyanate on the basis of Diphenylmethane diisocyanate.

Hazardous components

CAS No	Chemical name	Quantity
EC No	Index No	REACH No
Classification according to Regulation (EC) No. 1272/2008 [CLP]		
9016-87-9	diphenylmethanediisocyanate, isomeres and homolgues	50 - 100 %
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373	
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	10 < 25 %
	202-966-0 615-005-00-9 Carc. 2, Acute Tox. 4, STOT RE 2, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Resp. Sens. 1, Skin Sens. 1; H351 H332 H373 ** H319 H335 H315 H334 H317	
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate	2,5 < 10 %
	227-534-9 615-005-00-9 Carc. 2, Acute Tox. 4, STOT RE 2, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Resp. Sens. 1, Skin Sens. 1; H351 H332 H373 ** H319 H335 H315 H334 H317	

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

4. First aid measures

4.1. Description of first aid measures

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 precautions

Do 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/m ³	fibres/ml	Category	Origin
-	Isocyanates, all (as -NCO) Except methyl isocyanate	-	0.02		TWA (8 h)	WEL
		-	0.07		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
101-68-8	4,4'-methylenediphenyl diisocyanate; 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	Value
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	
Soil		1001 mg/kg
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	
Freshwater		1 mg/l
Marine water		0,1 mg/l
Soil		1 mg/kg

8.2. Exposure controls

Protective and hygiene measures

Do 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.
 tightly fitting goggles
 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).

Eye/face protection

Hand protection

Skin protection

Wear suitable protective clothing.

Respiratory protection

Breathing apparatus in case of high concentrations, short term: filter appliance, filter A

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: brown
 Odour: earthy

pH-Value (at 20 °C):

< 7 **Test method**
 ISO 8975

Changes in the physical state

Melting point: not determined
 Initial boiling point and boiling range: > 350 °C DIN 53171
 Flash point: 229 °C DIN EN 22719

Flammability

Solid: not applicable
 Gas: not applicable
 Lower explosion limits: not determined
 Upper explosion limits: not determined
 Ignition temperature: > 500 °C DIN 51794

Auto-ignition temperature

Solid: not applicable
 Gas: not applicable
 Decomposition temperature: not determined
 Vapour pressure: (at 25 °C) 0,0002 hPa
 Density (at 20 °C): 1,22 g/cm³ DIN 51757

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) 145 mPa·s DIN 53019
 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 (NO_x)
Possible in traces: Hydrogen cyanide (hydrocyanic acid)

11. Toxicological information

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	diphenylmethanediisocyanate, isomeres and homolgues	oral	LD50 > 10000 mg/kg	Rat	OECD 401	
		dermal	LD50 >9400 mg/kg	Rabbit	OECD 402	
		inhalative vapour	ATE 11 mg/l			
		inhalative (4 h) aerosol	LC50 0,31 mg/l	Rat	OECD 403	
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	oral	LD50 2200 mg/kg	Rat		
		dermal	LD50 > 9400 mg/kg	Rabbit		
		inhalative vapour	ATE 11 mg/l			
		inhalative aerosol	ATE 1,5 mg/l			
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate	oral	LD50 > 2001 mg/kg	Rat		
		dermal	LD50 > 9400 mg/kg	Rabbit		
		inhalative vapour	ATE 11 mg/l			
		inhalative (4 h) aerosol	LC50 0,387 mg/l	Rat		

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. ((diphenylmethanediisocyanate, 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. ((diphenylmethanediisocyanate, 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	Dose	[h] [d]	Species	Source	Method
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues					
	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 isocyanate; diphenylmethane-2,4'-diisocyanate					
	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. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility 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

Send to a hazardous waste incinerator facility under observation of official regulations. Do not allow to enter into surface water or drains.

Contaminated packaging

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
0,00 %

2010/75/EU (VOC):

National regulatory information

Water contaminating class (D):

1 - slightly water contaminating

Additional information

This mixture contains the following substances of very high concern (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)

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.
EUH204	Contains isocyanates. May produce an allergic reaction.

Further Information

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.)