

Safety Data Sheet

according to Regulation (EC) No 1907/2006

8992 2K-PU GapFiller Hardener

Revision: 28.01.2026

Product code: 8992

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

8992 2K-PU GapFiller Hardener

Further trade names

Product: 8792 resin + 8992 Hardener

Product group:

UFI: 50WS-C08V-100D-XUT3

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Adhesives and sealants Hardener

Uses advised against

Do not use for injecting or spraying.

1.3. Details of the supplier of the safety data sheet**Manufacturer**

Company name: Kisling AG
Street: Motorenstrasse 102
Place: CH-8620 Wetzikon
Telephone: +41 58 272 0 272
E-mail: customerservice@kisling.com
Contact person: Product Compliance Telephone: +49 7940 5096 143
E-mail (Contact person): compliance@kisling.com
Internet: www.kisling.com

Supplier

Company name: Kisling (Deutschland) GmbH
Street: Salzstraße 15
Place: D-74676 Niedernhall
Telephone: +49 7940 50961 61
E-mail: customerservice@kisling.com
Contact person: Product Compliance Telephone: +49 7940 5096 143
E-mail Contact person: compliance@kisling.com
Internet: www.kisling.com

1.4. Emergency telephone number:24 hr. emergency phone number +1 872 5888271 (KAR)
Medicines & Poisons Info Office +356 2545 6508**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Carc. 2; H351
Skin Irrit. 2; H315
Eye Irrit. 2; H319
Resp. Sens. 1; H334
Skin Sens. 1; H317
STOT SE 3; H335
STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**

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Oxirane, methyl-, polymer with 1,1'-methylenebis[isocyanatobenzene]
4-isocyanatosulphonyltoluene
4,4'-methylenediphenyl diisocyanate
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate

Signal word: Danger

Pictograms:



Hazard statements

- H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
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.
EUH204 Contains isocyanates. May produce an allergic reaction.

Precautionary statements

- P260 Do not breathe Vapour.
P280 Wear protective gloves and eye protection/face protection.
P284 Wear respiratory 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/doctor.
P501 Dispose of waste according to applicable legislation.

Special labelling

As from 24 August 2023 adequate training is required before industrial or professional use.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H317-H334-H351

Precautionary statements

P280-P284-P304+P340-P342+P311-P501

2.3. Other hazards

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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

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CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
157937-75-2	Oxirane, methyl-, polymer with 1,1'-methylenebis[isocyanatobenzene]			5 - < 15 %
	665-576-3			
	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			
4083-64-1	4-isocyanatosulphonyltoluene			5 - < 15 %
	223-810-8	615-012-00-7	01-2119980050-47	
	Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, STOT SE 3; H315 H319 H334 H335 EUH014			
101-68-8	4,4'-methylenediphenyl diisocyanate			1 - < 5 %
	202-966-0	615-005-00-9	01-2119457014-47	
	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			
78-40-0	triethyl phosphate			1 - < 5 %
	201-114-5	015-013-00-7		
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
108-65-6	2-methoxy-1-methylethyl acetate			1 - < 5 %
	203-603-9	607-195-00-7	01-2119475791-29	
	Flam. Liq. 3, STOT SE 3; H226 H336			
	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate			0.1 - < 1 %
	905-806-4		01-2119457015-45	
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H335 H373			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
157937-75-2	665-576-3	Oxirane, methyl-, polymer with 1,1'-methylenebis[isocyanatobenzene]	5 - < 15 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists)		
4083-64-1	223-810-8	4-isocyanatosulphonyltoluene	5 - < 15 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2330 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100 STOT SE 3; H335: >= 5 - 100		
101-68-8	202-966-0	4,4'-methylenediphenyl diisocyanate	1 - < 5 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 9200 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100 Resp. Sens. 1; H334: >= 0,1 - 100 STOT SE 3; H335: >= 5 - 100		
78-40-0	201-114-5	triethyl phosphate	1 - < 5 %
	oral: LD50 = 1170 mg/kg		
108-65-6	203-603-9	2-methoxy-1-methylethyl acetate	1 - < 5 %
	dermal: LD50 = 7500 mg/kg; oral: LD50 = 8532 mg/kg		
	905-806-4	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	0.1 - < 1 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 9400 mg/kg; oral: LD50 = > 2000 mg/kg Resp. Sens. 1; H334: >= 0,1 - 100 STOT SE 3; H335: >= 5 - 100		

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Never give anything by mouth to an unconscious person or a person with cramps.
If unconscious but breathing normally, place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

After contact with skin

Wash with plenty of water/soap. Do not wash with:

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately. Do NOT induce vomiting.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Powder.
In case of major fire and large quantities: Water spray jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.
Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), Isocyanates, Hydrogen cyanide (hydrocyanic acid),
Danger of serious damage to health by prolonged exposure. Use appropriate respiratory protection. Emergency cooling must be provided for in case of a fire in the vicinity.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

Additional information

No information available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.
Avoid breathing dust/fume/gas/mist/vapours/spray.
See protective measures under point 7 and 8.

For non-emergency personnel

No information available.

For emergency responders

No information available.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

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For containment

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Due to gaseous decomposition products, overpressure can occur in tightly sealed containers.

Dispose of contents/container to hazardous or special waste collection point.

Other information

The contaminated area should be cleaned up immediately with:

- 1 - a mixture of 95% water and 5% sodium carbonate & Soap
- 2 - 20ml anionic surfactants in aqueous solution, 700 ml Water, 350 ml Polyethylene glycol 400
- 3 - 30% Laundry detergents (monoethanolamine), 70 %

Add the decontaminant to the remnants and let stand for several days in a non-sealed container until no further reaction is observed. Once reaction is finished, close container and dispose of.

6.4. Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Examination of lung function should be carried out on a regular basis on persons spraying this product.

Avoid release to the environment. In use, may form flammable/explosive vapour-air mixture.

Only use the material in places where open light, fire and other flammable sources can be kept away. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Provide earthing of containers, equipment, pumps and ventilation facilities. Use non-sparking tools.

Handle and open container with care. Formation of: Due to gaseous decomposition products, overpressure can occur in tightly sealed containers.

Never use pressure to empty container. Keep/Store only in original container.

Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray. When using do not eat, drink or smoke.

Further information on handling

Do not allow to enter into surface water or drains.

7.2. Conditions for safe storage, including any incompatibilities

Hints on joint storage

Do not store together with: ,

Further information on storage conditions

Keep container dry.

Keep away from sources of ignition - No smoking. Protect from direct sunlight.

7.3. Specific end use(s)

Hardener (Crosslinker)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m ³	fib/cm ³	Category	Origin
108-65-6	2-Methoxy-1-methylethylacetate	50	275		TWA (8 h)	
		100	550		STEL (15 min)	

DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
DNEL type				

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DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
4083-64-1	4-isocyanatosulphonyltoluene			
Worker DNEL, long-term		inhalation	systemic	3.24 mg/m ³
Worker DNEL, long-term		dermal	systemic	0.92 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0.8 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0.46 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.46 mg/kg bw/day
101-68-8	4,4'-methylenediphenyl diisocyanate			
Worker DNEL, long-term		inhalation	local	0.05 mg/m ³
Worker DNEL, acute		inhalation	local	0.1 mg/m ³
Consumer DNEL, long-term		inhalation	local	0.025 mg/m ³
Consumer DNEL, acute		inhalation	local	0.05 mg/m ³
78-40-0	triethyl phosphate			
Worker DNEL, long-term		inhalation	systemic	9.9 mg/m ³
Worker DNEL, long-term		dermal	systemic	2 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1.74 mg/m ³
Consumer DNEL, long-term		dermal	systemic	1 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1 mg/kg bw/day
108-65-6	2-methoxy-1-methylethyl acetate			
Worker DNEL, long-term		inhalation	systemic	275 mg/m ³
Worker DNEL, acute		inhalation	local	550 mg/m ³
Worker DNEL, long-term		dermal	systemic	796 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	33 mg/m ³
Consumer DNEL, long-term		inhalation	local	33 mg/m ³
Consumer DNEL, long-term		dermal	systemic	320 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	36 mg/kg bw/day
	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate			
Worker DNEL, long-term		inhalation	local	0.05 mg/m ³
Worker DNEL, acute		inhalation	local	0.1 mg/m ³
Consumer DNEL, long-term		inhalation	local	0.025 mg/m ³
Consumer DNEL, acute		inhalation	local	0.05 mg/m ³

PNEC values

CAS No	Name of agent	Value
4083-64-1	4-isocyanatosulphonyltoluene	
Freshwater		0.03 mg/l
Freshwater (intermittent releases)		0.3 mg/l
Marine water		0.003 mg/l
Freshwater sediment		0.172 mg/kg
Marine sediment		0.017 mg/kg
Micro-organisms in sewage treatment plants (STP)		0.4 mg/l
Soil		0.017 mg/kg
101-68-8	4,4'-methylenediphenyl diisocyanate	
Freshwater		0.0037 mg/l
Freshwater (intermittent releases)		0.037 mg/l
Marine water		0.00037 mg/l
Freshwater sediment		11.7 mg/kg
Marine sediment		1.17 mg/kg
Soil		2.33 mg/kg

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PNEC values

CAS No	Name of agent	Value
Environmental compartment		
78-40-0	triethyl phosphate	
Freshwater		0.632 mg/l
Freshwater (intermittent releases)		9 mg/l
Marine water		0.063 mg/l
Freshwater sediment		5 mg/kg
Marine sediment		0.5 mg/kg
Micro-organisms in sewage treatment plants (STP)		298.5 mg/l
Soil		0.64 mg/kg
108-65-6	2-methoxy-1-methylethyl acetate	
Freshwater		0.635 mg/l
Freshwater (intermittent releases)		6.35 mg/l
Marine water		0.064 mg/l
Freshwater sediment		3.29 mg/kg
Marine sediment		0.329 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0.29 mg/kg
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate		
Freshwater		0.0037 mg/l
Freshwater (intermittent releases)		0.037 mg/l
Marine water		0.00037 mg/l
Freshwater sediment		11.7 mg/kg
Marine sediment		1.17 mg/kg
Soil		2.33 mg/kg

Additional advice on limit values

Examination of lung function should be carried out on a regular basis on persons spraying this product.

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

Suitable material: Butyl caoutchouc (butyl rubber)

See information supplied by the manufacturer.

Skin protection

(Natural fibres (e.g. cotton) / heat-resistant synthetic fibres)

Respiratory protection

During spraying wear suitable respiratory equipment.

Thermal hazards

No information available.

Environmental exposure controls

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Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	brown
Odour:	characteristic
Odour threshold:	not determined

Test method

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	275 - 278 °C
Flammability:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	> 100 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	not determined
Water solubility:	Immiscible
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure (at 20 °C):	1 hPa
Vapour pressure:	not determined
Density (at 22 °C):	2.25 g/cm ³
Relative vapour density:	not determined

ISO 2811

9.2. Other information

Information with regard to physical hazard classes

Explosive properties
No data available

Oxidizing properties
No data available

Other safety characteristics

Evaporation rate:	not determined
Solid content:	not determined
Viscosity / dynamic (at 22 °C):	40.000 - 80.000 mPa·s

DIN 53019

SECTION 10: Stability and reactivity

10.1. Reactivity

(Yes, slowly)
Formation of:

10.2. Chemical stability

Decomposition takes place from temperatures above: 200°C.

10.3. Possibility of hazardous reactions

Due to gaseous decomposition products, overpressure can occur in tightly sealed containers. Danger of bursting container.

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10.4. Conditions to avoid

In case of warming: Thermal decomposition.

10.6. Hazardous decomposition products

Carbon monoxide (monomer)

Further information

No information available.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 2000 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
157937-75-2	Oxirane, methyl-, polymer with 1,1'-methylenebis[isocyanatobenzene]				
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
4083-64-1	4-isocyanatosulphonyltoluene				
	oral	LD50 2330 mg/kg	Rat	Study report (1978)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2013)	OECD Guideline 402
101-68-8	4,4'-methylenediphenyl diisocyanate				
	oral	LD50 9200 mg/kg	Rat	GESTIS	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
78-40-0	triethyl phosphate				
	oral	LD50 1170 mg/kg	Rat	GESTIS	
108-65-6	2-methoxy-1-methylethyl acetate				
	oral	LD50 8532 mg/kg	Rat	RTECS	
	dermal	LD50 7500 mg/kg	Rabbit		
	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1990)	other: 84/449/EEC
	dermal	LD50 > 9400 mg/kg		Study report (1964)	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Oxirane, methyl-, polymer with 1,1'-methylenebis[isocyanatobenzene]; 4-isocyanatosulphonyltoluene; 4,4'-methylenediphenyl diisocyanate; Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate)

May cause an allergic skin reaction. (Oxirane, methyl-, polymer with 1,1'-methylenebis[isocyanatobenzene]; 4,4'-methylenediphenyl diisocyanate)

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Contains isocyanates. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (Oxirane, methyl-, polymer with 1,1'-methylenebis[isocyanatobenzene]; 4,4'-methylenediphenyl diisocyanate; Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate)
 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. (4-isocyanatosulphonyltoluene)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Oxirane, methyl-, polymer with 1,1'-methylenebis[isocyanatobenzene])

Aspiration hazard

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

Information on likely routes of exposure

No information available.

Specific effects in experiment on an animal

No information available.

Additional information on tests

No information available.

Practical experience

May cause respiratory irritation. Potential hazards:

The product is skin resorptive.

Irritating to eyes. (reversible.)

11.2. Information on other hazards

Other information

Isocyanate containing product.
 Respiratory or skin sensitisation/ May cause allergy or asthma symptoms or breathing difficulties if inhaled.

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

Further information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
4083-64-1	4-isocyanatosulphonyltoluene					
	Acute algae toxicity	ErC50 30 mg/l	72 h	Raphidocelis subcapitata	Study report (2013)	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	Study report (2013)	OECD Guideline 202
108-65-6	2-methoxy-1-methylethyl acetate					
	Acute fish toxicity	LC50 161 mg/l	96 h	Pimephales promelas		
	Acute crustacea toxicity	EC50 408 mg/l	48 h	Daphnia magna		

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate					
	Acute fish toxicity	LL50 > 100 mg/l	96 h		Study report (2020)	
	Acute algae toxicity	ErC50 > 100 mg/l	72 h		Study report (2020)	
	Acute crustacea toxicity	EL50 > 100 mg/l	48 h		Study report (2021)	
	Crustacea toxicity	NOEC >= 10 mg/l	21 d		Study report (1986)	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
4083-64-1	4-isocyanatosulphonyltoluene	0,6
78-40-0	triethyl phosphate	0,8
108-65-6	2-methoxy-1-methylethyl acetate	0,43
	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	4.52

BCF

CAS No	Chemical name	BCF	Species	Source
	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	439		Other company data (

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.

List of Wastes Code - residues/unused products

080501 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes not otherwise specified in 08; waste isocyanates; hazardous waste

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List of Wastes Code - used product

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List of Wastes Code - contaminated packaging

080501 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes not otherwise specified in 08; waste isocyanates; hazardous waste

Contaminated packaging

Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Moisture-sensitive. Protect against: Cold < +10°C Short-term maximum storage temperature permitted: +50°C Store separately.

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 56, Entry 74, Entry 75

Directive 2010/75/EU on industrial emissions: 2.697 % (60.689 g/l)

Information according to Directive Not subject to 2012/18/EU (SEVESO III)

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2012/18/EU (SEVESO III):

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

1 - slightly hazardous to water

Skin resorption/Sensitization:

Causes allergic hypersensitivity reactions.

(EU) EINECS/ELINCS/NLP:

yes

(RC) TCSI:

yes

(NZ) NZIoC:

no

(USA) TSCA:

yes

(CDN) DSL:

no

(ROK) KECI/ECL:

yes

(RP) PICCS:

no

(JP) MITI:

no

(CHN) IECSC:

yes

(AUS) AIIC:

no

(CDN) NDSL:

no

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,7,11,14,15.

Abbreviations and acronyms

Flam. Liq. 3: Flammable liquids, hazard category 3

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Irrit. 2: Skin irritation, hazard category 2

Eye Irrit. 2: Eye irritation, hazard category 2

Resp. Sens. 1: Respiratory sensitisation, hazard category 1

Skin Sens. 1: Skin sensitisation, hazard category 1

Carc. 2: Carcinogenicity, hazard category 2

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

STOT RE 2: Specific target organ toxicity - repeated exposure, hazard category 2

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

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

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(European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Regulations concerning the international carriage of dangerous goods by rail
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
 IMDG: International Maritime Code for Dangerous Goods
 EmS: Emergency Schedules
 MFAG: Medical First Aid Guide
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships
 IBC: Intermediate Bulk Container
 SVHC: Substance of Very High Concern

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Carc. 2; H351	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Resp. Sens. 1; H334	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
STOT RE 2; H373	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH014	Reacts violently with water.
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.

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