

Trade name: PC 71-020 Part B

Version: 13 / DK

Date revised: 21.06.2024

Replaces Version: 12 / DK

Print date: 19.03.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

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

Identified Uses

SU19	Building and construction work
PC9a	Coatings and paints, thinners, paint removers
ERC10a	Wide dispersive outdoor use of long-life articles and materials with low release
ERC11a	Wide dispersive indoor use of long-life articles and materials with low release
AC13-2	Plastic products: Flooring
PROC5	Mixing or blending in batch processes
PROC10	Roller application or brushing

Uses advised against

SU0 Other: none

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Melos GmbH
 Bismarckstrasse 4-10
 49324 Melle
 Telephone no. +49 5422 9447-0
 Fax no. +49 5422 5981
 Information provided HAZMAT Officer
 by / telephone
 E-mail address of sicherheit@melos-gmbh.com
 person responsible
 for this SDS

1.4. Emergency telephone number

NCEC Emergency Telephone Number : +44 1865 407333 (english)

NCEC Emergency Telephone Number Germany: +49 89 220 61012 (german, english)

NCEC Emergency Telephone Number Americas: +1 202 464 2554 (english)

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)		
	Flam. Liq. 3	H226
	Acute Tox. 4	H332
	Skin Irrit. 2	H315
	Eye Irrit. 2	H319
	Skin Sens. 1	H317
	STOT SE 3	H335
	STOT RE 2	H373

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
 For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

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Hazard pictograms**Signal word *****

Warning

Hazard statements ***

H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements ***

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501.1	Dispose of contents/container to industrial incineration plant.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains	Hexamethylene-1,6-diisocyanat homopolymer; xylene; ethylbenzene; hexamethylene-di-isocyanate
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Supplemental information

EUH204	Contains isocyanates. May produce an allergic reaction.
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Labelling according to annex XVII to regulation (EU) No 1907/2006

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

2.3. Other hazards

May cause sensitization by skin contact.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

polymer-containing coating

Hazardous ingredients**Hexamethylene-1,6-diisocyanat homopolymer**

CAS No.	28182-81-2
EINECS no.	500-060-2
Registration no.	2119485796-17-XXXX
Concentration	>= 54 < 75 %
Classification (Regulation (EC) No. 1272/2008)	

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Skin Sens. 1	H317	
Acute Tox. 4	H332	Route of exposure: inhalative
STOT SE 3	H335	

ATE	inhalative, Dust/Mist	1,5	mg/l
cATpE	inhalative, Vapors	11	mg/l

2-methoxy-1-methylethyl acetate

CAS No.	108-65-6	
EINECS no.	203-603-9	
Registration no.	01-2119475791-29-XXXX	
Concentration	>= 10	< 20 %
Classification (Regulation (EC) No. 1272/2008)		

Flam. Liq. 3	H226	
STOT SE 3	H336	Route of exposure: oral

xylene

CAS No.	1330-20-7	
EINECS no.	215-535-7	
Registration no.	01-2119488216-32-XXXX	
Concentration	>= 10	< 11 %
Classification (Regulation (EC) No. 1272/2008)		

Flam. Liq. 3	H226
Acute Tox. 4	H312
Acute Tox. 4	H332
Asp. Tox. 1	H304
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H335
STOT RE 2	H373

cATpE	dermal	1.100	mg/kg
cATpE	inhalative, Dust/Mist	1,5	mg/l

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note C

ethylbenzene

CAS No.	100-41-4	
EINECS no.	202-849-4	
Registration no.	01-2119489370-35-XXXX	
Concentration	>= 1	< 2,6 %
Classification (Regulation (EC) No. 1272/2008)		

Flam. Liq. 2	H225	
Asp. Tox. 1	H304	
Acute Tox. 4	H332	Route of exposure: inhalative
STOT RE 2	H373	Ear
Aquatic Chronic 3	H412	

cATpE	inhalative, Dust/Mist	1,5	mg/l
ATE	inhalative, Vapors	17,8	mg/l

hexamethylene-di-isocyanate

CAS No.	822-06-0	
EINECS no.	212-485-8	
Registration no.	01-2119457571-37-XXXX	
Concentration	>= 0,1	< 0,39 %
Classification (Regulation (EC) No. 1272/2008)		

Acute Tox. 3	H331
Skin Irrit. 2	H315

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Eye Irrit. 2	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
STOT SE 3	H335

Concentration limits (Regulation (EC) No. 1272/2008)

Resp. Sens. 1	H334	>= 0,5 %
Skin Sens. 1	H317	>= 0,5 %
ATE	inhalative, Dust/Mist	0,124 mg/l
ATE	inhalative, Vapors	0,124 mg/l

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note 2

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. Remove affected person from danger area.

After skin contact

Remove contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. Take medical treatment.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Hints for the physician / hazards

Until now no symptoms known so far.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂-blanket, powders, water spray/mist

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

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Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material.. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations. Clean contaminated floors and objects thoroughly, observing environmental regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid formation of aerosols. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Keep container tightly closed. Cleaning applications with dipolar and non-protogenic solvents, such as acetone, dimethyl sulphoxide DMSO or N,N-dimethylformamide DMF may lead to the formation of hazardous primary aromatic amines.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store together with foodstuffs.

Storage classes

Storage class according to TRGS 510 3 Flammable liquid

Further information on storage conditions

Storage only on a drip tray that can hold at least the contents of the largest container. Keep under lock and key or accessible only to specialists or people who are authorized. Keep container tightly closed and dry in a cool, well-ventilated place.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values**

xylene

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Value	109	mg/m ³	25	ppm(V)
Short term exposure limit	218	mg/m ³	50	ppm(V)
Skin resorption / sensibilisation: Skin; Status: 08/2022; Remarks: short term: 15 minutes average value; GESTIS				

xylene

List	IOELV			
Value	221	mg/m ³	50	ppm(V)
Short term exposure limit	442	mg/m ³	100	ppm(V)
Status: 08/2022; Remarks: short term: 15 minutes average value; Indicative Occupational Exposure Limit Value (IOELV); GESTIS				

ethylbenzene

List	GV			
Value	217	mg/m ³	50	ppm(V)
Skin resorption / sensibilisation: H; Remarks: EHK				

ethylbenzene

List	IOELV			
Type	IOELV			
Value	442	mg/m ³	100	ppm(V)
Short term exposure limit	884	mg/m ³	200	ppm(V)
Skin resorption / sensibilisation: Sk; Remarks: Skin				

2-methoxy-1-methylethyl acetate

List	GV			
Value	275	mg/m ³	50	ppm(V)
Skin resorption / sensibilisation: H; Remarks: EH				

2-methoxy-1-methylethyl acetate

List	IOELV			
Type	IOELV			
Value	275	mg/m ³	50	ppm(V)
Short term exposure limit	550	mg/m ³	100	ppm(V)
Skin resorption / sensibilisation: Sk; Remarks: Skin				

Other information

There are not known any further control parameters.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Hexamethylene-1,6-diisocyanat homopolymer

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1	mg/m ³
Source	Manufacturer's data	

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,5	mg/m ³
Source	Manufacturer's data	

xylene

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker
Duration of exposure	Repeated exposure

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Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 77 mg/m³
 Source ECHA

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Short term
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 289 mg/m³
 Source ECHA

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Repeated exposure
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 180 mg/kg/d
 Source ECHA

Type of value Derived No Effect Level (DNEL)
 Reference group General Population
 Duration of exposure Repeated exposure
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 14,8 mg/m³
 Source ECHA

Type of value Derived No Effect Level (DNEL)
 Reference group General Population
 Duration of exposure Repeated exposure
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 108 mg/kg/d
 Source ECHA

Type of value Derived No Effect Level (DNEL)
 Reference group General Population
 Duration of exposure Repeated exposure
 Route of exposure oral
 Mode of action Systemic effects
 Concentration 1,6 mg/kg/d
 Source ECHA

ethylbenzene

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Repeated exposure
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 77 mg/m³
 Source ECHA

Type of value Derived No Effect Level (DNEL)
 Reference group Worker

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Duration of exposure Short term
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 293 mg/m³
 Source ECHA

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Repeated exposure
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 180 mg/kg/d
 Source ECHA

Type of value Derived No Effect Level (DNEL)
 Reference group General Population
 Duration of exposure Repeated exposure
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 15 mg/m³
 Source ECHA

Type of value Derived No Effect Level (DNEL)
 Reference group General Population
 Duration of exposure Repeated exposure
 Route of exposure oral
 Mode of action Systemic effects
 Concentration 1,6 mg/kg/d
 Source ECHA

hexamethylene-di-isocyanate

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 35 µg/m³
 Source ECHA

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Short term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 70 µg/m³
 Source ECHA

2-methoxy-1-methylethyl acetate

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 275 mg/m³
 Source ECHA

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	550	mg/m ³
Source	ECHA	

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Repeated exposure	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	796	mg/kg/d
Source	ECHA	

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	33	mg/m ³
Source	ECHA	

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	33	mg/m ³
Source	ECHA	

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Repeated exposure	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	320	mg/kg/d
Source	ECHA	

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Repeated exposure	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	36	mg/kg/d
Source	ECHA	

Predicted No Effect Concentration (PNEC)

Hexamethylene-1,6-diisocyanat homopolymer

Type of value	PNEC	
Type	Freshwater	
Concentration	0,199	mg/l
Source	Manufacturer's data	

Type of value	PNEC	
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Type	Marine		
Concentration	0,0199		mg/l
Source	Manufacturer's data		
Type of value	PNEC		
Type	sediment (freshwater)		
Concentration	44.551		mg/kg
Source	Manufacturer's data		
Type of value	PNEC		
Type	Marine sediment		
Concentration	4.455		mg/kg
Source	Manufacturer's data		
Type of value	PNEC		
Type	Soil		
Concentration	8.884		mg/kg
Source	Manufacturer's data		
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	100		mg/l
Source	Manufacturer's data		
xylene			
Type of value	PNEC		
Type	Freshwater		
Concentration	327		µg/l
Source	ECHA		
Type of value	PNEC		
Type	Water (intermittent release)		
Concentration	327		µg/l
Source	ECHA		
Type of value	PNEC		
Type	Marine		
Concentration	327		µg/l
Source	ECHA		
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	6,58		mg/l
Source	ECHA		
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	12,46		mg/kg
Source	ECHA		
Type of value	PNEC		
Type	Marine sediment		
Concentration	12,46		mg/kg
Source	ECHA		
Type of value	PNEC		

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Type	Soil		
Concentration		2,31	mg/kg
Source	ECHA		

ethylbenzene

Type of value	PNEC		
Type	Freshwater		
Concentration		100	µg/l
Source	ECHA		

Type of value	PNEC		
Type	Water (intermittent release)		
Concentration		100	µg/l
Source	ECHA		

Type of value	PNEC		
Type	Marine		
Concentration		10	100
Source	ECHA		µg/l

Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration		9,6	mg/l
Source	ECHA		

Type of value	PNEC		
Type	sediment (freshwater)		
Concentration		13,7	mg/kg
Source	ECHA		

Type of value	PNEC		
Type	Marine sediment		
Concentration		1,37	mg/kg
Source	ECHA		

Type of value	PNEC		
Type	Soil		
Concentration		2,68	mg/kg
Source	ECHA		

hexamethylene-di-isocyanate

Type of value	PNEC		
Type	Freshwater		
Concentration		77,4	µg/l
Source	ECHA		

Type of value	PNEC		
Type	Water (intermittent release)		
Concentration		774	µg/l
Source	ECHA		

Type of value	PNEC		
Type	Marine		
Concentration		7,74	µg/l
Source	ECHA		

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Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	8,42	mg/l	
Source	ECHA		
Type of value	PNEC		
Type	sediment (freshwater)		
Concentration	0,01334	mg/kg	
Source	ECHA		
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,001344	mg/kg	
Source	ECHA		
Type of value	PNEC		
Type	Soil		
Concentration	0,0026	mg/kg	
Source	ECHA		

2-methoxy-1-methylethyl acetate

Type of value	PNEC		
Type	Freshwater		
Concentration	635	µg/l	
Source	ECHA		
Type of value	PNEC		
Type	Water (intermittent release)		
Concentration	6,35	mg/l	
Source	ECHA		
Type of value	PNEC		
Type	Marine		
Concentration	63,5	µg/l	
Source	ECHA		
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	100	mg/l	
Source	ECHA		
Type of value	PNEC		
Type	sediment (freshwater)		
Concentration	3,29	mg/kg	
Source	ECHA		
Type of value	PNEC		
Type	Marine sediment		
Concentration	329	µg/l	
Source	ECHA		
Type of value	PNEC		
Type	Soil		
Concentration	0,290	mg/kg	
Source	ECHA		

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Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	100		mg/l
Source	ECHA		

8.2. Exposure controls

General protective and hygiene measures

Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

Use respiratory protection when handling large quantities or in case of insufficient ventilation. Serie 7000 EasyLock with filter A1, Moldex; or; Versaflo TR-600 with Filter TR-6110E A1P, 3M

Hand protection

Chemical resistant gloves			
Appropriate Material	butyl		
Glove type	Butoject 897, KCL GmbH		
Material thickness	> 0,7	mm	
Appropriate Material	nitrile		
Material thickness	> 0,4	mm	

Eye protection

Tightly fitting safety glasses

Body protection

impermeable protective overalls; Protective Suit 4535, 3M Deutschland GmbH

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid		
Colour	yellowish		
Odour	characteristic		
Melting point			
Remarks	not determined		
Freezing point			
Remarks	not determined		
Boiling point or initial boiling point and boiling range			
Remarks	not determined		
Flammability			
evaluation	not determined		
Upper and lower explosive limits			
Remarks	not determined		
Flash point			
Value	38		°C
Auto-ignition temperature			
Remarks	not determined		
Decomposition temperature			
Remarks	not determined		

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pH value

Remarks not determined

Viscosity**dynamic**

Value	appr. 250		mPa.s
Temperature	23	°C	
Method	DIN EN ISO 3219		

kinematic

Value	appr. 208		mm ² /s
Temperature	23	°C	

Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)**PU coating**

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative density

Value	appr. 1,20		g/cm ³
Temperature	23	°C	
Method	ASTM D 4052		

Relative vapour density

Remarks not determined

9.2. Other information**Odour threshold**

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Remarks not determined

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

Protect from heat/overheating. Protect from atmospheric moisture and water. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

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10.4. Conditions to avoid

If product is heated above decomposition temperature toxic vapours may be released. Protect from atmospheric moisture and water. Do not store at temperatures above 60 °C.

10.5. Incompatible materials

Water, Reactions with alcohols, amines, aqueous acids and alkalies.

10.6. Hazardous decomposition products

Toxic gases/vapours, Irritant gases/vapours

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity****PU coating**

Remarks not determined

Acute oral toxicity (Components)**Hexamethylene-1,6-diisocyanat homopolymer**

Species	rat (female)	
LD50	>= 5.000	mg/kg
Method	OECD 423	
Source	Manufacturer's data	

xylene

Species	rat (male)	
LD50	3.523	mg/kg
Method	EEC 84/449, B.1	
Source	ECHA	

xylene

Species	rat (female)	
LD50	> 4.000	mg/kg
Method	EEC 84/449, B.1	
Source	ECHA	

ethylbenzene

Species	Rats (male/female)	
LD50	appr. 3.500	mg/kg
Method	Value taken from the literature	
Source	ECHA	

hexamethylene-di-isocyanate

Species	rat	
LD50	738	mg/kg
Method	Value taken from the literature	
Source	GESTIS-Stoffdatenbank	

2-methoxy-1-methylethyl acetate

Species	rat	
LD50	> 5000	mg/kg
Method	EPA	
Source	ECHA	

Acute dermal toxicity**PU coating**

ATE	> 10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute dermal toxicity (Components)

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Hexamethylene-1,6-diisocyanat homopolymer

Species	rabbit		
LD50	>	2.000	mg/kg
Remarks	Test conducted with a similar formulation.		
Source	Manufacturer's data		

ethylbenzene

Species	rabbit		
LD50	appr.	15.400	mg/kg
Duration of exposure	24	h	
Method	Value taken from the literature		
Source	ECHA		

hexamethylene-di-isocyanate

Species	rabbit		
LD50	>	7.000	mg/kg
Method	Value taken from the literature		
Source	GESTIS-Stoffdatenbank		

2-methoxy-1-methylethyl acetate

Species	rat		
LD50	>	5000	mg/kg
Duration of exposure	24	h	
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity**PU coating**

ATE	10,0114	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	

PU coating

ATE	1,6355	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute inhalative toxicity (Components)**Hexamethylene-1,6-diisocyanat homopolymer**

Species	rat (female)		
LC50		0,554	mg/l
Duration of exposure	4	h	
Administration/Form	Dust/Mist		
Source	Manufacturer's data		

Hexamethylene-1,6-diisocyanat homopolymer

Species	rat (female)		
LD50		1,5	mg/l
Duration of exposure	4	h	
Administration/Form	Dust/Mist		
Method	expert judgement		
Source	Manufacturer's data		

Hexamethylene-1,6-diisocyanat homopolymer

Species	rat		
LD50			
Administration/Form	Vapors		
Method	expert judgement		
Remarks	Based on available data, the classification criteria are not met.		

xylene

Species	rat (male)		
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LC50 29 mg/l
 Duration of exposure 4 h
 Administration/Form Vapors
 Method Value taken from the literature
 Source ECHA

ethylbenzene

Species rat (male)
 LC50 17,8 mg/l
 Duration of exposure 4 h
 Administration/Form Vapors
 Method Value taken from the literature
 Source ECHA

hexamethylene-di-isocyanate

Species rat
 LC50 0,124 mg/l
 Duration of exposure 4 h
 Administration/Form Dust/Mist
 Source GESTIS-Stoffdatenbank

hexamethylene-di-isocyanate

Species Rats (male/female)
 LC50 0,124 mg/l
 Duration of exposure 4 h
 Administration/Form Vapors
 Source ECHA

Skin corrosion/irritation

PU coating

Remarks not determined

Skin corrosion/irritation (Components)

hexamethylene-di-isocyanate

Species rabbit
 Duration of exposure 4 h
 Observation Period 8 d
 evaluation corrosive
 Method OECD 404
 Source ECHA

Hexamethylene-1,6-diisocyanat homopolymer

Species rabbit
 evaluation slight irritant effect - does not require labelling
 Method OECD 404
 Source Manufacturer's data

Serious eye damage/irritation

PU coating

Remarks not determined

Serious eye damage/irritation (Components)

hexamethylene-di-isocyanate

Species rabbit
 Duration of exposure <= 24 h
 Observation Period 8 d
 evaluation corrosive
 Method OECD 405
 Source ECHA

Hexamethylene-1,6-diisocyanat homopolymer

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Species	rabbit
evaluation	slight irritant effect - does not require labelling
Method	OECD 405
Source	Manufacturer's data

Sensitization

PU coating

Remarks not determined

Sensitization (Components)

Hexamethylene-1,6-diisocyanat homopolymer

Route of exposure	dermal
Species	mouse
evaluation	sensitizing
Method	OECD 429
Source	Manufacturer's data

hexamethylene-di-isocyanate

Route of exposure	dermal
Species	guinea pig
evaluation	sensitizing
Method	OECD 406
Source	ECHA

hexamethylene-di-isocyanate

Route of exposure	inhalative
Species	guinea pig
evaluation	sensitizing
Source	ECHA

2-methoxy-1-methylethyl acetate

Route of exposure	dermal
Species	guinea pig
evaluation	non-sensitizing
Method	OECD 406
Source	ECHA

Subacute, subchronic, chronic toxicity

PU coating

Remarks not determined

Subacute, subchronic, chronic toxicity (Components)

Hexamethylene-1,6-diisocyanat homopolymer

Sub-chronic toxicity		
Route of exposure	inhalative	
Species	Rats (male/female)	
NOAEL	3,3	mg/m ³
Repeated exposure		
Duration of exposure	90	d
Method	OECD 413	
Remarks	Test conducted with a similar formulation.	
Source	Manufacturer's data	

xylene

Sub-chronic toxicity		
Route of exposure	oral	
Species	rat (male)	
LOAEL	150	mg/kg/d
Repeated exposure		
Duration of exposure	90	d

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Method	OECD 408		
Source	ECHA		
xylene			
Sub-chronic toxicity			
Route of exposure	oral		
Species	rat (female)		
NOAEL	150		mg/kg/d
Repeated exposure			
Duration of exposure	90	d	
Method	OECD 408		
Source	ECHA		
ethylbenzene			
Subacute toxicity			
Route of exposure	oral		
Species	Rats (male/female)		
NOAEL	75		mg/kg/d
Repeated exposure			
Duration of exposure	28	d	
Method	OECD 407		
Source	ECHA		
ethylbenzene			
Sub-chronic toxicity			
Route of exposure	oral		
Species	Rats (male/female)		
NOAEL	75		mg/kg/d
Repeated exposure			
Duration of exposure	3	Months	
Method	OECD 408		
Source	ECHA		
ethylbenzene			
Sub-chronic toxicity			
Route of exposure	inhalative		
Species	Rats (male/female)		
NOAEC	1.000		ppm(V)
Repeated exposure			
Duration of exposure	13	Weeks	
Method	OECD 413		
Source	ECHA		
ethylbenzene			
Subacute toxicity			
Route of exposure	inhalative		
Species	Rats (male/female)		
NOAEC	800		ppm(V)
Repeated exposure			
Duration of exposure	4	Weeks	
Method	OECD 412		
Source	ECHA		
ethylbenzene			
Chronic toxicity			
Route of exposure	inhalative		
Species	rat (male)		
NOAEC	250		ppm(V)
Repeated exposure			
Duration of exposure	104	Weeks	
Method	OECD 453		

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Source ECHA

ethylbenzene
 Chronic toxicity
 Route of exposure inhalative
 Species rat (female)
 LOAEC 75 ppm(V)
 Repeated exposure
 Duration of exposure 104 Weeks
 Method OECD 453
 Source ECHA

hexamethylene-di-isocyanate
 Chronic toxicity
 Route of exposure inhalative
 Species Rats (male/female)
 NOAEC 0,005 ppm(V)
 Repeated exposure
 Duration of exposure 2 y
 Method OECD 453
 Source ECHA

2-methoxy-1-methylethyl acetate
 Subacute toxicity
 Route of exposure oral
 Species Rats (male/female)
 NOAEL >= 1000 mg/kg
 Repeated exposure
 Duration of exposure appr. 44 d
 Method OECD 422
 Source ECHA

Mutagenicity

PU coating
 Remarks not determined

Mutagenicity (Components)

Hexamethylene-1,6-diisocyanat homopolymer
 Species Salmonella typhimurium
 evaluation No experimental information on genotoxicity in vitro available.
 Method OECD 471
 Source Manufacturer's data

Hexamethylene-1,6-diisocyanat homopolymer
 Species Chinese hamster lung fibroblasts (V79)
 evaluation No experimental information on genotoxicity in vitro available.
 Method OECD 473
 Remarks Test conducted with a similar formulation.
 Source Manufacturer's data

ethylbenzene
 Species mouse lymphoma L5178Y cells
 Dose <= 1.060 mg/l
 evaluation No experimental information on genotoxicity in vitro available.
 Method OECD 476
 Source ECHA

ethylbenzene
 Route of exposure oral
 Species mouse
 Dose <= 750 mg/kg
 evaluation No experimental indications on genotoxicity in vivo found.

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Method OECD 474
Source ECHA

ethylbenzene

Route of exposure inhalative
Species mouse
Dose <= 1.000 ppm(V)
Duration of exposure 6 h
evaluation No experimental indications on genotoxicity in vivo found.
Method OECD 486
Source ECHA

hexamethylene-di-isocyanate

Species Salmonella typhimurium
evaluation No experimental information on genotoxicity in vitro available.
Source ECHA

hexamethylene-di-isocyanate

Species Chinese hamster Ovary (CHO)
evaluation No experimental information on genotoxicity in vitro available.
Source ECHA

hexamethylene-di-isocyanate

Route of exposure inhalative
Species mouse
Duration of exposure 6 h
evaluation No experimental indications on genotoxicity in vivo found.
Method OECD 474
Source ECHA

2-methoxy-1-methylethyl acetate

Species Salmonella typhimurium
evaluation No experimental information on genotoxicity in vitro available.
Method OECD 471
Source ECHA

Reproductive toxicity**PU coating**

Remarks not determined

Carcinogenicity**PU coating**

Remarks not determined

Carcinogenicity (Components)**hexamethylene-di-isocyanate**

Route of exposure inhalative
Species Rats (male/female)
Dose <= 0,175 ppm(V)
Duration of exposure 2 y
evaluation No indications of carcinogenic effects are available from long-term trials.
Method OECD 453
Source ECHA

Specific Target Organ Toxicity (STOT)**PU coating**

Remarks not determined

11.2. Information on other hazards**Endocrine disrupting properties with respect to humans****PU coating**

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The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

Fish toxicity**PU coating**

Remarks not determined

Fish toxicity (Components)**Hexamethylene-1,6-diisocyanat homopolymer**

Species	zebra fish (Brachydanio rerio)	
LC50	> 100	mg/l
Duration of exposure	96	h
Method	67/548/EWG, V, C.1	
Source	Manufacturer's data	

xylene

Species	rainbow trout (Oncorhynchus mykiss)	
LC50	2,6	mg/l
Duration of exposure	96	h
Method	OECD 203	
Source	ECHA	

xylene

Species	rainbow trout (Oncorhynchus mykiss)	
NOEC	> 1,3	mg/l
Duration of exposure	56	d
Source	ECHA	

ethylbenzene

Species	Menidia menidia	
LC50	5,1	mg/l
Duration of exposure	96	h
Method	EPA	
Source	ECHA	

ethylbenzene

Species	Menidia menidia	
NOEC	3,3	mg/l
Duration of exposure	96	h
Method	EPA	
Source	ECHA	

hexamethylene-di-isocyanate

Species	zebra fish (Brachydanio rerio)	
LC0	>= 82,8	mg/l
Duration of exposure	96	h
Method	EEC 84/449, C.1	
Source	ECHA	

2-methoxy-1-methylethyl acetate

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Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	100	180	mg/l
Duration of exposure	96	h	
Method	OECD 203		
Source	ECHA		

2-methoxy-1-methylethyl acetate

Species	Oryzias latipes		
LC50	63,5		mg/l
Duration of exposure	14	d	
Method	OECD 204		
Source	ECHA		

Daphnia toxicity**PU coating**

Remarks	not determined
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Daphnia toxicity (Components)**Hexamethylene-1,6-diisocyanat homopolymer**

Species	Daphnia magna		
EC50	> 100		mg/l
Duration of exposure	48	h	
Method	67/548/EWG, V, C.2		
Source	Manufacturer's data		

xylene

Species	Daphnia magna		
IC50	1		mg/l
Duration of exposure	24	h	
Method	OECD 202		
Source	ECHA		

xylene

Species	Ceriodaphnia dubia		
NOEC	0,96		mg/l
Duration of exposure	7	d	
Source	ECHA		

ethylbenzene

Species	Americamysis bahia (<i>Mysidopsis bahia</i>)		
LC50	2,6		mg/l
Duration of exposure	96	h	
Method	EPA		
Source	ECHA		

hexamethylene-di-isocyanate

Species	Daphnia magna		
EC0	>= 89,1		mg/l
Duration of exposure	24	h	
Method	EEC 84/449, C.2		
Source	ECHA		

2-methoxy-1-methylethyl acetate

Species	Daphnia magna		
EC50	> 500		mg/l
Duration of exposure	48	h	
Method	EEC 84/449, C.2		
Source	ECHA		

2-methoxy-1-methylethyl acetate

Species	Daphnia magna		
EC50	> 100		mg/l

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Duration of exposure	21	d
Method	OECD 211	
Source	ECHA	

Algae toxicity**PU coating**

Remarks not determined

Algae toxicity (Components)**Hexamethylene-1,6-diisocyanat homopolymer**

Species	Scenedesmus subspicatus	
ErC50	199	mg/l
Duration of exposure	72	h
Method	67/548/EWG, V, C.3	
Source	Manufacturer's data	

xylene

Species	Raphidocelis subcapitata (formerly Selenastrum capricornutum/Pseudokirchneriella subcapitata)	
NOEC	0,44	mg/l
Duration of exposure	73	h
Method	OECD 201	
Source	ECHA	

xylene

Species	Raphidocelis subcapitata (formerly Selenastrum capricornutum/Pseudokirchneriella subcapitata)	
EC10	0,72	to 1,9 mg/l
Duration of exposure	73	h
Method	OECD 201	
Source	ECHA	

xylene

Species	Raphidocelis subcapitata (formerly Selenastrum capricornutum/Pseudokirchneriella subcapitata)	
EC50	2,2	to 4,36 mg/l
Duration of exposure	73	h
Method	OECD 201	
Source	ECHA	

xylene

Species	Raphidocelis subcapitata (formerly Selenastrum capricornutum/Pseudokirchneriella subcapitata)	
EC90	4,4	to 10 mg/l
Duration of exposure	73	h
Method	OECD 201	
Source	ECHA	

ethylbenzene

Species	Raphidocelis subcapitata (formerly Selenastrum capricornutum/Pseudokirchneriella subcapitata)	
EC50	3,6	mg/l
Duration of exposure	96	h
Method	EPA	
Source	ECHA	

ethylbenzene

Species	Raphidocelis subcapitata (formerly Selenastrum capricornutum/Pseudokirchneriella subcapitata)	
NOEC	3,4	mg/l
Duration of exposure	96	h
Method	EPA	

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Source ECHA
ethylbenzene
 Species Skeletonema costatum
 EC50 7,7 mg/l
 Duration of exposure 96 h
 Method EPA
 Source ECHA

ethylbenzene
 Species Skeletonema costatum
 NOEC 4,5 mg/l
 Duration of exposure 96 h
 Method EPA
 Source ECHA

hexamethylene-di-isocyanate
 Species Scenedesmus subspicatus
 EC50 > 77,4 mg/l
 Duration of exposure 72 h
 Method EU Method C.3
 Source ECHA

hexamethylene-di-isocyanate
 Species Scenedesmus subspicatus
 NOEC 11,7 mg/l
 Duration of exposure 72 h
 Method EU Method C.3
 Source ECHA

hexamethylene-di-isocyanate
 Species Scenedesmus subspicatus
 LOEC 12,6 mg/l
 Duration of exposure 72 h
 Method EU Method C.3
 Source ECHA

2-methoxy-1-methylethyl acetate
 Species Pseudokirchneriella subcapitata
 EC50 > 1.000 mg/l
 Duration of exposure 72 h
 Method OECD 201
 Source ECHA

Bacteria toxicity

PU coating

Remarks not determined

Bacteria toxicity (Components)

Hexamethylene-1,6-diisocyanat homopolymer
 Species activated sludge
 EC50 > 10.000 mg/l
 Duration of exposure 3 h
 Method 88/302/EEC
 Source Manufacturer's data

xylene
 Species activated sludge
 NOEC 157 mg/l
 Duration of exposure 3 h
 Method OECD 209
 Source ECHA

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xylene

Species activated sludge
 EC50 > 157 mg/l
 Duration of exposure 3 h
 Method OECD 209
 Source ECHA

hexamethylene-di-isocyanate

Species activated sludge
 EC10 299 mg/l
 Duration of exposure 3 h
 Source ECHA

hexamethylene-di-isocyanate

Species activated sludge
 EC50 842 mg/l
 Duration of exposure 3 h
 Source ECHA

12.2. Persistence and degradability

General information

not determined

Physico-chemical eliminability

PU coating

Remarks not determined

Biodegradability

PU coating

Remarks not determined

Biodegradability (Components)

Hexamethylene-1,6-diisocyanat homopolymer

Value 2 %
 Duration of test 28 d
 evaluation not readily degradable
 Method EU Methode C.4-E
 Source Manufacturer's data

hexamethylene-di-isocyanate

Value 42 %
 Duration of test 28 d
 evaluation Readily eliminable from water
 Method EU Methode C.4-D
 Source ECHA

2-methoxy-1-methylethyl acetate

Value 90 %
 Duration of test 28 d
 evaluation Readily eliminable from water
 Method OECD Guideline 301F
 Source ECHA

Ready degradability

PU coating

Remarks not determined

Ready degradability (Components)

ethylbenzene

Value 70 to 80 %

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Duration of test 28 d
Source ECHA

Chemical oxygen demand (COD)**PU coating**

Remarks not determined

Biochemical oxygen demand (BOD5)**PU coating**

Remarks not determined

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient n-octanol/water (log value)**PU coating**

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)**2-methoxy-1-methylethyl acetate**

log Pow 1,2
Temperature 20 °C
Method OECD 117
Source ECHA

Bioconcentration factor (BCF)**PU coating**

Remarks not determined

12.4. Mobility in soil**General information**

not determined

12.5. Results of PBT and vPvB assessment**General information**

not determined

Results of PBT and vPvB assessment**PU coating**

The product contains no PBT substances

PU coating

The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment****PU coating**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information**

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Dispose of as hazardous waste.

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

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

For cured material waste key number (EAK) 08 04 10 can be applied.

Disposal recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Under consideration of safe working praxis the empty container is turned around for 1-2 days to let flow out the residues.

Subsequently add 2 - 3 L of one of the following decontamination solutions per 215 L container volume:

1. A mixture of 75 % water, 20 % non-ionic detergens and 5 % n-propanole.
2. A mixture of 80 % water and 20 % non-ionic detergent.
3. A mixture of 90 % water, 3-8 % ammonium hydroxide or a conc. solution of ammonia and 2 % liquid detergent.

For wetting the whole inner surface turn the container around several times and sotre it open for 2-3 h.

After this time the isocyanate is converted to an harmless solid (polyurea), so the container can be disposed after filtering off the decontamination solution.

The residual decontamination solution can be used to decontaminate more empty containers. It can be disposed if it doesn't smell of ammonia (if necessary after neutralization).

Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number or ID number	1866	1866	1866
14.2. UN proper shipping name	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l	5 l	
Transport category	3		

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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Major-accident categories acc. 2012/18/EU**

Category	P5c	FLAMMABLE LIQUID	5.000.000	kg	50.000.000	kg
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VOC

VOC (EU)	25	%	300	g/l
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Other regulations, restrictions and prohibition regulations

REGULATION (EC) No. 1907/2006 ANNEX XVII:

Conditions of restriction: Entry 3

Conditions of restriction: Entry 56

Conditions of restriction: Entry 74

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

BG Data Sheet M 044 "Polyurethane manufacture / Isocyanates"

Other information

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

15.2. Chemical safety assessment

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

SECTION 16: Other information**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Classification (Regulation (EC) No. 1272/2008)		
Flam. Liq. 3	H226	On basis of test data
Acute Tox. 4	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method

Hazard statements listed in Chapter 2/3

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4

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Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Resp. Sens. 1	Respiratory sensitization, Category 1
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.