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

1.1. Product identifier

Product form : Mixture
Trade name : Derbizinc
UFI : G220-903G-5007-QUW1
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : Further information see technical data sheet. TDS Derbizinc

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Imperbel N.V./S.A
Guido Gezellestraat 123
1654 Beersel (Huizingen), Belgium
Tel.+32 2 334 87 00
Fax:+32 2 378 14 69
info@derbigum.com
www.derbigum.be

1.4. Emergency telephone number

Emergency number : + 32 3 575 55 55 (24h/24h)


Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226
Skin Irrit. 2 H315
Eye Irrit. 2 H319
Resp. Sens. 1 H334
Skin Sens. 1 H317
Carc. 2 H351
STOT SE 3 H336
STOT SE 3 H335
STOT RE 2 H373
Aquatic Acute 1 H400
Aquatic Chronic 3 H412

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

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word

: Danger

Contains

: 2-methoxy-1-methylethyl acetate; Reaction mass of ethylbenzene and xylene; Toluenediisocyanate, trimethylolpropane, diethylene glycol polymer; Xylene; m-tolyldiene diisocyanate; Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]; Diphenylmethanediisocyanate, isomeres and homologues; 4,4'-methylenediphenyl diisocyanate; 4-isocyanatosulphonyltoluene; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.
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.
H336 - May cause drowsiness or dizziness.
H351 - Suspected of causing cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe fume, gas, mist, vapours, spray.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 - Get medical advice/attention if you feel unwell.
P391 - Collect spillage.
P403+P235 - Store in a well-ventilated place. Keep cool.

Extra phrases


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

2.3. Other hazards

Other hazards

: Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII. Vapours can form explosive mixtures with air. Persons suffering from asthma or eczema and persons who have chronic lung diseases, skin or respiratory allergies to isocyanates should not work with the material.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-methoxy-1-methylethyl acetate substance with a Community workplace exposure limit	(CAS-No.) 108-65-6 (EC-No.) 203-603-9 (EC Index) 607-195-00-7 (REACH-no) 01-2119475791-29-xxxx	< 25	Flam. Liq. 3, H226 STOT SE 3, H336
Toluenediisocyanate, trimethylolpropane, diethylene glycol polymer	(CAS-No.) 53317-61-6 (EC-No.) 500-120-8	< 15	Eye Irrit. 2, H319 Skin Sens. 1, H317
Difenylylfosfaat	(EC-No.) 907-387-3 (REACH-no) 01-2119511174-52-xxxx	≤ 15	Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Reaction mass of ethylbenzene and xylene	(CAS-No.) RR-45541-4 (EC-No.) 905-588-0 (REACH-no) 01-2119488216-32-xxxx	< 10	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
Xylene substance with a Community workplace exposure limit	(CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index) 601-022-00-9	< 10	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	(CAS-No.) 64742-82-1 (EC-No.) 919-446-0 (REACH-no) 01-2119458049-33-xxxx	< 10	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT RE 1, H372 Flam. Liq. 3, H226
4-isocyanatosulphonyltoluene	(CAS-No.) 4083-64-1 (EC-No.) 223-810-8 (EC Index) 615-012-00-7 (REACH-no) 01-2119980050-47-xxxx	≤ 3	Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha.-hydro.-omega.-hydroxypoly[oxy(methyl-1,2-ethanediy)]	(CAS-No.) 53862-89-8	< 2	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
m-tolyldiene diisocyanate	(CAS-No.) 26471-62-5 (EC-No.) 247-722-4 (EC Index) 615-006-00-4	< 1	Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412

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Diphenylmethanediisocyanate, isomeres and homologues	(CAS-No.) 9016-87-9 (EC-No.) 618-498-9 (REACH-no) 05-2116077946-78-xxxx	< 1	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
4,4'-methylenediphenyl diisocyanate	(CAS-No.) 101-68-8 (EC-No.) 202-966-0 (EC Index) 615-005-00-9 (REACH-no) 01-2119457014-47-xxxx	< 1	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1B, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

Specific concentration limits:

Substance name	Product identifier	Specific concentration limits
4-isocyanatosulphonyltoluene	(CAS-No.) 4083-64-1 (EC-No.) 223-810-8 (EC Index) 615-012-00-7 (REACH-no) 01-2119980050-47-xxxx	(5 ≤C < 100) Skin Irrit. 2, H315 (5 ≤C < 100) STOT SE 3, H335 (5 ≤C < 100) Eye Irrit. 2, H319
m-tolylidene diisocyanate	(CAS-No.) 26471-62-5 (EC-No.) 247-722-4 (EC Index) 615-006-00-4	(0,1 ≤C < 100) Resp. Sens. 1, H334
Diphenylmethanediisocyanate, isomeres and homologues	(CAS-No.) 9016-87-9 (EC-No.) 618-498-9 (REACH-no) 05-2116077946-78-xxxx	(0,1 ≤C < 100) Resp. Sens. 1, H334 (5 ≤C < 100) STOT SE 3, H335 (5 ≤C < 100) Skin Irrit. 2, H315 (5 ≤C < 100) Eye Irrit. 2, H319
4,4'-methylenediphenyl diisocyanate	(CAS-No.) 101-68-8 (EC-No.) 202-966-0 (EC Index) 615-005-00-9 (REACH-no) 01-2119457014-47-xxxx	(0,1 ≤C < 100) Resp. Sens. 1, H334 (5 ≤C < 100) STOT SE 3, H335 (5 ≤C < 100) Skin Irrit. 2, H315 (5 ≤C < 100) Eye Irrit. 2, H319

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


SECTION 4: First aid measures

4.1. Description of first aid measures

- Additional advice : First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation : Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.
- Skin contact : Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
- Eyes contact : Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.
- Ingestion : Rinse mouth thoroughly with water. Get medical advice/attention.

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

- Inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. The following symptoms may occur: Cough, Irritation. May cause drowsiness or dizziness.
- Skin contact : May cause an allergic skin reaction. Causes skin irritation. The following symptoms may occur: Redness, Irritation, Repeated exposure may cause skin dryness or cracking.
- Eyes contact : Causes serious eye irritation. The following symptoms may occur: redness, itching, tears, Pain.

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Ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Chronic symptoms : Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : carbon dioxide (CO₂), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards : Heating will cause a rise in pressure with a risk of bursting. Flammable liquid and vapour. Vapours are heavier than air and may spread along floors.
Explosion hazard : Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Can form explosive mixtures with air.
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Isocyanates.

5.3. Advice for firefighters

Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions


Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Dam up the liquid spill.
Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation. Cover the spilled liquid product with foam to slow down evaporation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Contaminated work clothing must not be allowed out of the workplace. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.
- Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ensure equipment is adequately earthed.
- Storage conditions : Keep container tightly closed. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.
- Incompatible substances or mixtures : Oxidizing agent.
- Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition. Keep out of direct sunlight. Do not smoke.
- Special rules on packaging : Keep in properly labelled containers.
- Packaging materials : Keep only in the original container. Do not pierce or burn, even after use. Do not burn, or use a cutting torch on the empty drum. Never use pressure to empty container.


7.3. Specific end use(s)

Reference to other sections : 1.2.


SECTION 8: Exposure controls/personal protection

8.1. Control parameters


2-methoxy-1-methylethyl acetate (108-65-6)		
EU	IOEL TWA	275 mg/m ³
EU	IOEL TWA [ppm]	50 ppm
EU	IOEL STEL	550 mg/m ³
EU	IOEL STEL [ppm]	100 ppm
EU	Remark	Possibility of significant uptake through the skin
Austria	MAK (OEL TWA)	275 mg/m ³
Austria	MAK (OEL TWA) [ppm]	50 ppm
Austria	MAK (OEL STEL)	550 mg/m ³
Austria	MAK (OEL STEL) [ppm]	100 ppm
Belgium	OEL TWA	275 mg/m ³
Belgium	OEL TWA [ppm]	50 ppm
Belgium	OEL STEL	550 mg/m ³
Belgium	OEL STEL [ppm]	100 ppm
Bulgaria	OEL TWA	275 mg/m ³
Bulgaria	OEL TWA [ppm]	50 ppm

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2-methoxy-1-methylethyl acetate (108-65-6)		
Bulgaria	OEL STEL	550 mg/m ³
Bulgaria	OEL STEL [ppm]	100 ppm
Croatia	GVI (OEL TWA) [1]	275 mg/m ³
Croatia	GVI (OEL TWA) [2]	50 ppm
Croatia	KGVI (OEL STEL)	550 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	100 ppm
Cyprus	OEL TWA	275 mg/m ³
Cyprus	OEL TWA [ppm]	50 ppm
Cyprus	OEL STEL	550 mg/m ³
Cyprus	OEL STEL [ppm]	100 ppm
Czech Republic	PEL (OEL TWA)	270 mg/m ³
Denmark	OEL TWA [1]	275 mg/m ³
Denmark	OEL TWA [2]	50 ppm
Estonia	OEL TWA	275 mg/m ³
Estonia	OEL TWA [ppm]	50 ppm
Estonia	OEL STEL	550 mg/m ³
Estonia	OEL STEL [ppm]	100 ppm
Finland	HTP (OEL TWA) [1]	270 mg/m ³
Finland	HTP (OEL TWA) [2]	50 ppm
Finland	HTP (OEL STEL)	550 mg/m ³
Finland	HTP (OEL STEL) [ppm]	100 ppm
France	VME (OEL TWA)	275 mg/m ³ (restrictive limit)
France	VME (OEL TWA) [ppm]	50 ppm (restrictive limit)
France	VLE (OEL C/STEL)	550 mg/m ³ (restrictive limit)
France	VLE (OEL C/STEL) [ppm]	100 ppm (restrictive limit)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	270 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	50 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar	OEL TWA	275 mg/m ³
Gibraltar	OEL TWA [ppm]	50 ppm
Gibraltar	OEL STEL	550 mg/m ³
Gibraltar	OEL STEL [ppm]	100 ppm
Greece	OEL TWA	275 mg/m ³
Greece	OEL TWA [ppm]	50 ppm
Greece	OEL STEL	550 mg/m ³
Greece	OEL STEL [ppm]	100 ppm
Hungary	AK (OEL TWA)	275 mg/m ³
Hungary	CK (OEL STEL)	550 mg/m ³
Ireland	OEL TWA [1]	275 mg/m ³
Ireland	OEL TWA [2]	50 ppm
Ireland	OEL STEL	550 mg/m ³

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2-methoxy-1-methylethyl acetate (108-65-6)		
Ireland	OEL STEL [ppm]	100 ppm
Italy	OEL TWA	275 mg/m ³
Italy	OEL TWA [ppm]	50 ppm
Italy	OEL STEL	550 mg/m ³
Italy	OEL STEL [ppm]	100 ppm
Latvia	OEL TWA	275 mg/m ³
Latvia	OEL TWA [ppm]	50 ppm
Lithuania	IPRV (OEL TWA)	250 mg/m ³
Lithuania	IPRV (OEL TWA) [ppm]	50 ppm
Lithuania	TPRV (OEL STEL)	400 mg/m ³
Lithuania	TPRV (OEL STEL) [ppm]	75 ppm
Luxembourg	OEL TWA	275 mg/m ³
Luxembourg	OEL TWA [ppm]	50 ppm
Luxembourg	OEL STEL	550 mg/m ³
Luxembourg	OEL STEL [ppm]	100 ppm
Malta	OEL TWA	275 mg/m ³
Malta	OEL TWA [ppm]	50 ppm
Malta	OEL STEL	550 mg/m ³
Malta	OEL STEL [ppm]	100 ppm
Netherlands	TGG-8u (OEL TWA)	550 mg/m ³
Poland	NDS (OEL TWA)	260 mg/m ³
Poland	NDSch (OEL STEL)	520 mg/m ³
Portugal	OEL TWA	275 mg/m ³ (indicative limit value)
Portugal	OEL TWA [ppm]	50 ppm (indicative limit value)
Portugal	OEL STEL	550 mg/m ³ (indicative limit value)
Portugal	OEL STEL [ppm]	100 ppm (indicative limit value)
Romania	OEL TWA	275 mg/m ³
Romania	OEL TWA [ppm]	50 ppm
Romania	OEL STEL	550 mg/m ³
Romania	OEL STEL [ppm]	100 ppm
Slovakia	NPHV (OEL TWA) [1]	275 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	50 ppm
Slovakia	NPHV (OEL C)	550 mg/m ³
Slovenia	OEL TWA	275 mg/m ³
Slovenia	OEL TWA [ppm]	50 ppm
Slovenia	OEL STEL	550 mg/m ³
Slovenia	OEL STEL [ppm]	100 ppm
Spain	VLA-ED (OEL TWA) [1]	275 mg/m ³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	50 ppm (indicative limit value)
Spain	VLA-EC (OEL STEL)	550 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	100 ppm

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2-methoxy-1-methylethyl acetate (108-65-6)		
Sweden	NGV (OEL TWA)	275 mg/m ³
Sweden	NGV (OEL TWA) [ppm]	50 ppm
Sweden	KTV (OEL STEL)	550 mg/m ³
Sweden	KTV (OEL STEL) [ppm]	100 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	274 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	50 ppm
United Kingdom	WEL STEL (OEL STEL)	548 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	100 ppm
Norway	Grenseverdi (OEL TWA) [1]	270 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	50 ppm
Norway	Korttidsverdi (OEL STEL)	337,5 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	75 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	275 mg/m ³
Switzerland	MAK (OEL TWA) [2]	50 ppm
Switzerland	KZGW (OEL STEL)	275 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	50 ppm
Australia	OES TWA [1]	274 mg/m ³
Australia	OES TWA [2]	50 ppm
Australia	OES STEL	548 mg/m ³
Australia	OES STEL [ppm]	100 ppm
Xylene (1330-20-7)		
EU	IOEL TWA	221 mg/m ³ (pure)
EU	IOEL TWA [ppm]	50 ppm (pure)
EU	IOEL STEL	442 mg/m ³ (pure)
EU	IOEL STEL [ppm]	100 ppm (pure)
EU	Remark	Possibility of significant uptake through the skin (pure)
Austria	MAK (OEL TWA)	221 mg/m ³ (all isomers)
Austria	MAK (OEL TWA) [ppm]	50 ppm (all isomers)
Austria	MAK (OEL STEL)	442 mg/m ³
Austria	MAK (OEL STEL) [ppm]	100 ppm
Belgium	OEL TWA	221 mg/m ³
Belgium	OEL TWA [ppm]	50 ppm
Belgium	OEL STEL	442 mg/m ³
Belgium	OEL STEL [ppm]	100 ppm
Bulgaria	OEL TWA	221 mg/m ³ (pure)
Bulgaria	OEL TWA [ppm]	50 ppm (pure)
Bulgaria	OEL STEL	442 mg/m ³ (pure)
Bulgaria	OEL STEL [ppm]	100 ppm (pure)
Croatia	GVI (OEL TWA) [1]	221 mg/m ³
Croatia	GVI (OEL TWA) [2]	50 ppm
Croatia	KGVI (OEL STEL)	442 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	100 ppm
Cyprus	OEL TWA	221 mg/m ³
Cyprus	OEL TWA [ppm]	50 ppm

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Xylene (1330-20-7)		
Cyprus	OEL STEL	442 mg/m ³
Cyprus	OEL STEL [ppm]	100 ppm
Czech Republic	PEL (OEL TWA)	200 mg/m ³
Denmark	OEL TWA [1]	109 mg/m ³ (Xylene, all isomers)
Denmark	OEL TWA [2]	25 ppm (Xylene, all isomers)
Estonia	OEL TWA	200 mg/m ³
Estonia	OEL TWA [ppm]	50 ppm
Estonia	OEL STEL	450 mg/m ³
Estonia	OEL STEL [ppm]	100 ppm
Finland	HTP (OEL TWA) [1]	220 mg/m ³
Finland	HTP (OEL TWA) [2]	50 ppm
Finland	HTP (OEL STEL)	440 mg/m ³
Finland	HTP (OEL STEL) [ppm]	100 ppm
France	VME (OEL TWA)	221 mg/m ³ (restrictive limit)
France	VME (OEL TWA) [ppm]	50 ppm (restrictive limit)
France	VLE (OEL C/STEL)	442 mg/m ³ (restrictive limit)
France	VLE (OEL C/STEL) [ppm]	100 ppm (restrictive limit)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	220 mg/m ³ (all isomers)
Germany	Occupational exposure limit value (ppm) (TRGS900)	50 ppm (all isomers)
Germany	Biological limit value	2000 mg/l Parameter: Methylhippuric(tolur-)acid (all isomers) - Medium: urine - Sampling time: end of shift (all isomers)
Gibraltar	OEL TWA	221 mg/m ³ (pure)
Gibraltar	OEL TWA [ppm]	50 ppm (pure)
Gibraltar	OEL STEL	442 mg/m ³ (pure)
Gibraltar	OEL STEL [ppm]	100 ppm (pure)
Greece	OEL TWA	435 mg/m ³
Greece	OEL TWA [ppm]	100 ppm
Greece	OEL STEL	650 mg/m ³
Greece	OEL STEL [ppm]	150 ppm
Hungary	AK (OEL TWA)	221 mg/m ³
Hungary	CK (OEL STEL)	442 mg/m ³
Ireland	OEL TWA [1]	221 mg/m ³
Ireland	OEL TWA [2]	50 ppm
Ireland	OEL STEL	442 mg/m ³
Ireland	OEL STEL [ppm]	100 ppm
Italy	OEL TWA	221 mg/m ³ (pure)
Italy	OEL TWA [ppm]	50 ppm (pure)
Italy	OEL STEL	442 mg/m ³ (pure)
Italy	OEL STEL [ppm]	100 ppm (pure)
Latvia	OEL TWA	221 mg/m ³


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Xylene (1330-20-7)		
Latvia	OEL TWA [ppm]	50 ppm
Lithuania	IPRV (OEL TWA)	221 mg/m ³ (mixed isomers, pure)
Lithuania	IPRV (OEL TWA) [ppm]	50 ppm (mixed isomers, pure)
Lithuania	TPRV (OEL STEL)	442 mg/m ³ (mixed isomers, pure)
Lithuania	TPRV (OEL STEL) [ppm]	100 ppm (mixed isomers, pure)
Luxembourg	OEL TWA	221 mg/m ³
Luxembourg	OEL TWA [ppm]	50 ppm
Luxembourg	OEL STEL	442 mg/m ³
Luxembourg	OEL STEL [ppm]	100 ppm
Malta	OEL TWA	221 mg/m ³ (pure)
Malta	OEL TWA [ppm]	50 ppm (pure)
Malta	OEL STEL	442 mg/m ³ (pure)
Malta	OEL STEL [ppm]	100 ppm (pure)
Netherlands	TGG-8u (OEL TWA)	210 mg/m ³
Netherlands	TGG-15min (OEL STEL)	442 mg/m ³
Poland	NDS (OEL TWA)	100 mg/m ³ (mixture of isomers)
Poland	NDSch (OEL STEL)	200 mg/m ³ (mixture of isomers)
Portugal	OEL TWA	221 mg/m ³ (indicative limit value)
Portugal	OEL TWA [ppm]	50 ppm (indicative limit value)
Portugal	OEL STEL	442 mg/m ³ (indicative limit value)
Portugal	OEL STEL [ppm]	100 ppm (indicative limit value)
Romania	OEL TWA	221 mg/m ³ (pure)
Romania	OEL TWA [ppm]	50 ppm (pure)
Romania	OEL STEL	442 mg/m ³ (pure)
Romania	OEL STEL [ppm]	100 ppm (pure)
Slovakia	NPHV (OEL TWA) [1]	221 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	50 ppm
Slovakia	NPHV (OEL C)	442 mg/m ³
Slovenia	OEL TWA	221 mg/m ³
Slovenia	OEL TWA [ppm]	50 ppm
Slovenia	OEL STEL	442 mg/m ³
Slovenia	OEL STEL [ppm]	100 ppm
Spain	VLA-ED (OEL TWA) [1]	221 mg/m ³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	50 ppm (indicative limit value)
Spain	VLA-EC (OEL STEL)	442 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	100 ppm
Sweden	NGV (OEL TWA)	221 mg/m ³ (Xylene)
Sweden	NGV (OEL TWA) [ppm]	50 ppm (Xylene)
Sweden	KTV (OEL STEL)	442 mg/m ³ (Xylene)
Sweden	KTV (OEL STEL) [ppm]	100 ppm (Xylene)
United Kingdom	WEL TWA (OEL TWA) [1]	220 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	50 ppm


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Xylene (1330-20-7)		
United Kingdom	WEL STEL (OEL STEL)	441 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	100 ppm
Norway	Grenseverdi (OEL TWA) [1]	108 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	25 ppm
Norway	Korttidsverdi (OEL STEL)	135 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	37,5 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	220 mg/m ³
Switzerland	MAK (OEL TWA) [2]	50 ppm
Switzerland	KZGW (OEL STEL)	440 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	100 ppm
Australia	OES TWA [1]	350 mg/m ³
Australia	OES TWA [2]	80 ppm
Australia	OES STEL	655 mg/m ³
Australia	OES STEL [ppm]	150 ppm
Canada (Quebec)	VECD (OEL STEL)	651 mg/m ³
Canada (Quebec)	VECD (OEL STEL) [ppm]	150 ppm
Canada (Quebec)	VEMP (OEL TWA)	434 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	100 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	20 ppm
USA - OSHA	OSHA PEL TWA [1]	435 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	100 ppm


m-tolyldiene diisocyanate (26471-62-5)		
Austria	MAK (OEL TWA)	0,035 mg/m ³ (Toluene diisocyanate)
Austria	MAK (OEL TWA) [ppm]	0,005 ppm (Toluene diisocyanate)
Austria	MAK (OEL STEL)	0,14 mg/m ³ (Diisocyanatotoluene)
Austria	MAK (OEL STEL) [ppm]	0,02 ppm (Diisocyanatotoluene)
Belgium	OEL TWA	0,037 mg/m ³
Belgium	OEL TWA [ppm]	0,005 ppm
Belgium	OEL STEL	0,14 mg/m ³
Belgium	OEL STEL [ppm]	0,02 ppm
France	VME (OEL TWA)	0,08 mg/m ³
France	VME (OEL TWA) [ppm]	0,01 ppm
France	VLE (OEL C/STEL)	0,16 mg/m ³
France	VLE (OEL C/STEL) [ppm]	0,02 ppm
Lithuania	IPRV (OEL TWA)	0,04 mg/m ³ (including pre-polymerized Isocyanates (adducts)-dust, aerosols (Toluene diisocyanates, TDI))
Lithuania	IPRV (OEL TWA) [ppm]	0,005 ppm (including pre-polymerized Isocyanates (adducts)-dust, aerosols (Toluene diisocyanates, TDI))
Lithuania	NRV (OEL C)	0,07 mg/m ³ (including pre-polymerized Isocyanates (adducts)-dust, aerosols (Toluene diisocyanates, TDI))
Lithuania	NRV (OEL C) [ppm]	0,01 ppm (including pre-polymerized Isocyanates (adducts)-dust, aerosols (Toluene diisocyanates, TDI))
Poland	NDS (OEL TWA)	0,007 mg/m ³ (mixture of isomers: 2,4- and 2,6)
Poland	NDSch (OEL STEL)	0,021 mg/m ³ (mixture of isomers: 2,4- and 2,6)

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m-tolylidene diisocyanate (26471-62-5)		
Portugal	OEL TWA [ppm]	0,005 ppm
Portugal	OEL STEL [ppm]	0,02 ppm
Slovenia	OEL TWA	0,035 mg/m ³
Slovenia	OEL TWA [ppm]	0,005 ppm
Slovenia	OEL STEL	0,035 mg/m ³
Slovenia	OEL STEL [ppm]	0,005 ppm
Sweden	NGV (OEL TWA)	0,014 mg/m ³ (Diisocyanates)
Sweden	NGV (OEL TWA) [ppm]	0,002 ppm (Diisocyanates)
Sweden	KTV (OEL STEL)	0,04 mg/m ³ (Diisocyanates)
Sweden	KTV (OEL STEL) [ppm]	0,005 ppm (Diisocyanates)
Canada (Quebec)	VECD (OEL STEL)	0,14 mg/m ³ (Toluene diisocyanate (mixed isomers))
Canada (Quebec)	VECD (OEL STEL) [ppm]	0,02 ppm (Toluene diisocyanate (mixed isomers))
Canada (Quebec)	VEMP (OEL TWA)	0,036 mg/m ³ (Toluene diisocyanate (isomers mixture))
Canada (Quebec)	VEMP (OEL TWA) [ppm]	0,005 ppm (Toluene diisocyanate (isomers mixture))
USA - ACGIH	ACGIH OEL TWA [ppm]	0,001 ppm (inhalable fraction and vapor)
USA - ACGIH	ACGIH OEL STEL [ppm]	0,005 ppm (inhalable fraction and vapor)
Diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)		
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	0,05 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Slovenia	OEL TWA	0,05 mg/m ³ (calculated as MDI-inhalable fraction)
Slovenia	OEL STEL	0,05 mg/m ³ (inhalable fraction)
Australia	OES TWA [1]	0,02 mg/m ³ (Isocyanates, all)
Australia	OES STEL	0,07 mg/m ³ (Isocyanates, all)
4,4'-methylenediphenyl diisocyanate (101-68-8)		
Austria	MAK (OEL TWA)	0,05 mg/m ³ (Diphenylmethane-diisocyanate all isomers)
Austria	MAK (OEL TWA) [ppm]	0,005 ppm (Diphenylmethane-diisocyanate all isomers)
Austria	MAK (OEL STEL)	0,1 mg/m ³ (Diphenylmethane diisocyanate)
Austria	MAK (OEL STEL) [ppm]	0,01 ppm (Diphenylmethane diisocyanate)
Belgium	OEL TWA	0,052 mg/m ³
Belgium	OEL TWA [ppm]	0,005 ppm
Czech Republic	PEL (OEL TWA)	0,05 mg/m ³
Denmark	OEL TWA [1]	0,05 mg/m ³
Denmark	OEL TWA [2]	0,005 ppm
Estonia	OEL TWA	0,05 mg/m ³
Estonia	OEL TWA [ppm]	0,005 ppm
Estonia	OEL STEL	0,1 mg/m ³
Estonia	OEL STEL [ppm]	0,01 ppm
France	VME (OEL TWA)	0,1 mg/m ³
France	VME (OEL TWA) [ppm]	0,01 ppm

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4,4'-methylenediphenyl diisocyanate (101-68-8)		
France	VLE (OEL C/STEL)	0,2 mg/m ³
France	VLE (OEL C/STEL) [ppm]	0,02 ppm
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	0,05 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Hungary	AK (OEL TWA)	0,05 mg/m ³
Hungary	CK (OEL STEL)	0,05 mg/m ³
Ireland	OEL TWA [2]	0,005 ppm
Ireland	OEL STEL [ppm]	0,015 ppm (calculated)
Lithuania	IPRV (OEL TWA)	0,05 mg/m ³ (including pre-polymerized Isocyanates (adducts)-dust, aerosols (Methylene bisphenylisocyanate (MDI))
Lithuania	IPRV (OEL TWA) [ppm]	0,005 ppm (including pre-polymerized Isocyanates (adducts)-dust, aerosols (Methylene bisphenylisocyanate (MDI))
Lithuania	NRV (OEL C)	0,1 mg/m ³ (including pre-polymerized Isocyanates (adducts)-dust, aerosols (Methylene bisphenylisocyanate (MDI))
Lithuania	NRV (OEL C) [ppm]	0,01 ppm (including pre-polymerized Isocyanates (adducts)-dust, aerosols (Methylene bisphenylisocyanate (MDI))
Poland	NDS (OEL TWA)	0,03 mg/m ³
Poland	NDSch (OEL STEL)	0,09 mg/m ³
Portugal	OEL TWA [ppm]	0,005 ppm
Romania	OEL STEL	0,15 mg/m ³
Slovakia	NPHV (OEL TWA) [1]	0,002 mg/m ³ (Isocyanates) 0,03 mg/m ³ (Isopropylalcohol)
Slovenia	OEL TWA	0,05 mg/m ³ (inhalable fraction)
Slovenia	OEL TWA [ppm]	0,005 ppm
Slovenia	OEL STEL	0,05 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL [ppm]	0,005 ppm
Spain	VLA-ED (OEL TWA) [1]	0,052 mg/m ³
Spain	VLA-ED (OEL TWA) [2]	0,005 ppm
Sweden	NGV (OEL TWA)	0,03 mg/m ³ (Diisocyanates)
Sweden	NGV (OEL TWA) [ppm]	0,002 ppm (Diisocyanates)
Sweden	KTV (OEL STEL)	0,05 mg/m ³ (Diisocyanates)
Sweden	KTV (OEL STEL) [ppm]	0,005 ppm (Diisocyanates)
Norway	Grenseverdi (OEL TWA) [1]	0,05 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	0,005 ppm
Norway	Korttidsverdi (OEL STEL) [ppm]	0,01 ppm (value from the regulation)
Switzerland	MAK (OEL TWA) [1]	0,02 mg/m ³ (B for Diphenylmethane-4,4'-diisocyanate)
Switzerland	KZGW (OEL STEL)	0,02 mg/m ³ (calculated as total NCO, B for Diphenylmethane-4,4'-diisocyanate (Isocyanate)

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4,4'-methylenediphenyl diisocyanate (101-68-8)		
Australia	OES TWA [1]	0,02 mg/m ³ (Isocyanates, all)
Australia	OES STEL	0,07 mg/m ³ (Isocyanates, all)
Canada (Quebec)	VEMP (OEL TWA)	0,051 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	0,005 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	0,005 ppm (Methylene bisphenyl isocyanate (MDI))
USA - IDLH	IDLH	75 mg/m ³
USA - NIOSH	NIOSH REL TWA	0,05 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	0,005 ppm (Methylene bisphenyl isocyanate)
USA - NIOSH	NIOSH REL C	0,2 mg/m ³
USA - NIOSH	NIOSH REL C [ppm]	0,02 ppm
USA - OSHA	OSHA PEL C	0,2 mg/m ³
USA - OSHA	OSHA PEL C [ppm]	0,02 ppm

Additional information : Recommended monitoring procedures. Personal air monitoring. Room air monitoring


8.2. Exposure controls

Engineering measure(s)	: Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Take precautionary measures against static discharges. Organisational measures to prevent/limit releases, dispersion and exposure : Reference to other sections 7.
Personal protective equipment	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hand protection	: Protective gloves complying with EN 374. Thickness : . Not determined. Breakthrough time : refer to the recommendations of the supplier. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Eye protection	: Wear eye protection. tightly fitting safety goggles (EN 166)
Body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. In case of insufficient ventilation, wear suitable respiratory equipment. full face mask (DIN EN 136). Half-face mask (DIN EN 140). Filter type: A (EN 14387).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: viscous liquid.
Colour	: Grey.
Odour	: Hydrocarbons.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: No data available

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Initial boiling point and boiling range	: 140 °C Initial boiling point
Flash point	: 33 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Not applicable,liquid
Vapour pressure	: 8 hPa (20°C)
Vapour density	: No data available
Relative density	: 1,1
Solubility	: Water: Insoluble
Partition coefficient n-octanol/water	: Not applicable
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability


Stable under normal conditions.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air. No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of direct sunlight. See Section 7 for information on safe handling.

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10.5. Incompatible materials

oxidising substances. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Reference to other sections 5.2.


SECTION 11: Toxicological information

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

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

2-methoxy-1-methylethyl acetate (108-65-6)	
LD50/oral/rat	8532 mg/kg
LD50/dermal/rabbit	> 5 g/kg
LC50/inhalation/4h/rat	16000 mg/m ³ (Exposure time: 6 h)
Xylene (1330-20-7)	
LD50/oral/rat	8700 mg/kg
LD50/dermal/rabbit	2000 mg/kg
LC50/inhalation/4h/rat	6350 mg/m ³
m-tolylidene diisocyanate (26471-62-5)	
LD50/oral/rat	3060 mg/kg
LD50/dermal/rabbit	10000 mg/kg
LC50/inhalation/4h/rat	0,099 mg/l/4h
Diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)	
LD50/oral/rat	10 g/kg
LD50/dermal/rabbit	9400 mg/kg
LC50/inhalation/4h/rat	0,369 mg/m ³ (Exposure time: 4 h)
LC50 Inhalation - Rat (Dust/Mist)	0,369 mg/l/4h
LC50 Inhalation - Rat (Vapours)	0,369 mg/m ³
4,4'-methylenediphenyl diisocyanate (101-68-8)	
LD50/oral/rat	31600 mg/kg
LD50/dermal/rabbit	> 9400 mg/kg
LC50/inhalation/4h/rat	369 mg/m ³ (Exposure time: 4 h)
4-isocyanatosulphonyltoluene (4083-64-1)	
LD50/oral/rat	2234 mg/kg
LC50/inhalation/4h/rat (ppm)	> 640 ppm/1h

Skin corrosion/irritation	: Causes skin irritation. pH: No data available
Serious eye damage/irritation	: Causes serious eye irritation. pH: No data available
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: May cause drowsiness or dizziness. May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.

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Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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Kinematic viscosity	No data available

Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2 Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.


Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

2-methoxy-1-methylethyl acetate (108-65-6)	
LC50 - Fish [1]	161 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	> 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Xylene (1330-20-7)	
LC50 - Fish [1]	1 - 10 mg/l (96h)
LC50 - Fish [2]	2,661 – 4,093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	1 - 10 mg/l (48h)
EC50 - Crustacea [2]	0,6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)
EC50 72h - Algae [1]	1 - 10 mg/l (72h)
IC50, algae	2.2 mg/l (72 hours)

m-tolylidene diisocyanate (26471-62-5)	
NOEC (acute)	≥ 1000 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])

Diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)	
LC50 - Fish [1]	LC0 > 3000 mg/l (96h)(Oryzias latipes)
EC50 - Crustacea [1]	129,7 mg/l (24h)(Daphnia magna)
EC50 - Other aquatic organisms [1]	> 1640 mg/l (72h)(Desmodesmus subspicatus)

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NOEC chronic crustacea	> 10 mg/l (21days)(Daphnia magna)
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4,4'-methylenediphenyl diisocyanate (101-68-8)	
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LC50 - Fish [1]	LC0 > 3000 mg/l (96h)(Oryzias latipes)
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EC50 - Crustacea [1]	129,7 mg/l (24h)(Daphnia magna)
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EC50 - Other aquatic organisms [1]	> 1640 mg/l (72h)(Desmodesmus subspicatus)
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NOEC chronic crustacea	≥ 10 mg/l (21days)(Daphnia magna)
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12.2. Persistence and degradability

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Persistence and degradability	No additional information available.
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4,4'-methylenediphenyl diisocyanate (101-68-8)	
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Persistence and degradability	Not biodegradable.
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12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water	Not applicable
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Bioaccumulative potential	No additional information available.
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2-methoxy-1-methylethyl acetate (108-65-6)	
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Partition coefficient n-octanol/water	1,2 (at 20 °C (at pH 6.8))
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Reaction mass of ethylbenzene and xylene (RR-45541-4)	
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Partition coefficient n-octanol/water	3,49 (at 30 °C (at pH >=5-<=8))
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Xylene (1330-20-7)	
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BCF - Fish [1]	0,6 – 15
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Partition coefficient n-octanol/water	2,77 – 3,15
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m-tolylidene diisocyanate (26471-62-5)	
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BCF - Fish [1]	(180 dimensionless)
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Partition coefficient n-octanol/water	3,43 (at 22 °C (at pH 7))
---------------------------------------	---------------------------

Diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)	
---	--


BCF - Fish [1]	92
----------------	----

Partition coefficient n-octanol/water	4,51 (at 22 °C (at pH 7))
---------------------------------------	---------------------------

4,4'-methylenediphenyl diisocyanate (101-68-8)	
---	--

BCF - Fish [1]	92
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Bioconcentration factor (BCF)	200
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Partition coefficient n-octanol/water	4,51 (at 22 °C (at pH 7)
Bioaccumulative potential	Bioaccumulation unlikely.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (64742-82-1)	
Partition coefficient n-octanol/water	5,04 – 6,24 (at 35 °C (at pH 7.33)

12.4. Mobility in soil

Derbizinc	
Mobility in soil	No data available

12.5. Results of PBT and vPvB assessment

Derbizinc	
Results of PBT assessment	Contains no PBT/vPvB substances \geq 0.1% assessed in accordance with REACH Annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

12.7. Other adverse effects

Other adverse effects

: No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Handle with care. Reference to other sections 7: Handling and storage . Do not allow to enter into surface water or drains. Dispose of contaminated materials in accordance with current regulations. Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility. Beware of residues or vapours which remain in the drums.

Additional information : Delivery to an approved waste disposal company.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : Classified as hazardous waste according to European Union regulations.


The following Waste Codes are only suggestions:
080111 - waste paint and varnish containing organic solvents or other dangerous substances (/ 08 01 17*).











Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
1993	1993	1993	1993	1993
14.2. UN proper shipping name				
FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate ; Reaction mass of	FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate ; Reaction mass of	Flammable liquid, n.o.s. (2-methoxy-1-methylethyl acetate ; Reaction mass of	FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate ; Reaction mass of	FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate ; Reaction mass of

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ADR	IMDG	IATA	ADN	RID
ethylbenzene and xylene ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))	ethylbenzene and xylene ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))	ethylbenzene and xylene ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))	ethylbenzene and xylene ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))	ethylbenzene and xylene ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))
Transport document description				
UN 1993 FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate ; Reaction mass of ethylbenzene and xylene ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)), 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate ; Reaction mass of ethylbenzene and xylene ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)), 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1993 Flammable liquid, n.o.s. (2-methoxy-1-methylethyl acetate ; Reaction mass of ethylbenzene and xylene ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)), 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate ; Reaction mass of ethylbenzene and xylene ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)), 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate ; Reaction mass of ethylbenzene and xylene ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)), 3, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
3	3	3	3	3
 	 	 	 	 
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport

Classification code (ADR) : F1
 Special provisions : 274, 601
 Limited quantities (ADR) : 5I
 Excepted quantities (ADR) : E1
 Packing instructions (ADR) : P001, IBC03, LP01, R001
 Mixed packing provisions (ADR) : MP19
 Portable tank and bulk container instructions (ADR) : T4
 Portable tank and bulk container special provisions (ADR) : TP1, TP29
 Tank code (ADR) : LGBF
 Vehicle for tank carriage : FL
 Transport category (ADR) : 3
 Special provisions for carriage - Packages (ADR) : V12

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Special provisions for carriage - Operation (ADR) : S2

Hazard identification number (Kemler No.) : 30

Orange plates :

30
1993

Tunnel restriction code : D/E

EAC code : •3Y

- Transport by sea

Special provisions (IMDG) : 223, 274, 955

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP01, P001

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP1, TP29

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-E

Stowage category (IMDG) : A

- Air transport

PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y344

PCA limited quantity max net quantity (IATA) : 10L

PCA packing instructions (IATA) : 355

PCA max net quantity (IATA) : 60L

CAO packing instructions (IATA) : 366

CAO max net quantity (IATA) : 220L

Special provisions (IATA) : A3

ERG code (IATA) : 3L

- Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 274, 601

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 0

- Rail transport


Classification code (RID) : F1

Special provisions (RID) : 274, 601

Limited quantities (RID) : 5L

Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

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Mixed packing provisions (RID) : MP19
 Portable tank and bulk container instructions (RID) : T4
 Portable tank and bulk container special provisions (RID) : TP1, TP29
 Tank codes for RID tanks (RID) : LGBF
 Transport category (RID) : 3
 Special provisions for carriage – Packages (RID) : W12
 Colis express (express parcels) (RID) : CE4
 Hazard identification number (RID) : 30

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : No data available.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:


3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Derbizinc ; 2-methoxy-1-methylethyl acetate ; Xylene ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Derbizinc ; 2-methoxy-1-methylethyl acetate ; Xylene ; m-tolylidene diisocyanate ; Diphenylmethanediisocyanate, isomeres and homologues ; 4-isocyanatosulphonyltoluene ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Derbizinc ; Xylene ; m-tolylidene diisocyanate ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	2-methoxy-1-methylethyl acetate ; Reaction mass of ethylbenzene and xylene ; Xylene ; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
56. Methylenediphenyl diisocyanate (MDI)	4,4'-methylenediphenyl diisocyanate
56(a) Methylenediphenyl diisocyanate (MDI) isomers: 4,4'-Methylenediphenyl diisocyanate	4,4'-methylenediphenyl diisocyanate
74. Diisocyanates, O = C=N-R-N = C=O, with R an aliphatic or aromatic hydrocarbon unit of unspecified length	m-tolylidene diisocyanate ; 4,4'-methylenediphenyl diisocyanate

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

15.1.2. National regulations

France


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No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
4330.text	Liquides inflammables de catégorie 1, liquides inflammables maintenus à une température supérieure à leur point d'ébullition, autres liquides de point éclair inférieur ou égal à 60° C maintenus à une température supérieure à leur température d'ébullition ou dans des conditions particulières de traitement, telles qu'une pression ou une température élevée (1).		
4330.1	La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant : 1. Supérieure ou égale à 10 t (1) Conformément à la section 2.6.4.5 de l'annexe I du règlement (CE) n° 1272/2008, il n'est pas nécessaire de classer les liquides ayant un point d'éclair supérieur à 35° C dans la catégorie 3 si l'épreuve de combustion entretenue du point L 2, partie III, section 32, du Manuel d'épreuves et de critères des Nations unies a donné des résultats négatifs. Toutefois, cette remarque n'est pas valable en cas de température ou de pression élevée, et ces liquides doivent alors être classés dans cette catégorie. Quantité seuil bas au sens de l'article R. 511-10 : 10 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 t.	A	2
4330.2	La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant : 2. Supérieure ou égale à 1 t mais inférieure à 10 t (1) Conformément à la section 2.6.4.5 de l'annexe I du règlement (CE) n° 1272/2008, il n'est pas nécessaire de classer les liquides ayant un point d'éclair supérieur à 35° C dans la catégorie 3 si l'épreuve de combustion entretenue du point L 2, partie III, section 32, du Manuel d'épreuves et de critères des Nations unies a donné des résultats négatifs. Toutefois, cette remarque n'est pas valable en cas de température ou de pression élevée, et ces liquides doivent alors être classés dans cette catégorie. Quantité seuil bas au sens de l'article R. 511-10 : 10 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 t.	DC	
4331.text	Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330. La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :		
4331.1	1. Supérieure ou égale à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	A	2
4331.2	2. Supérieure ou égale à 100 t mais inférieure à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	E	
4331.3	3. Supérieure ou égale à 50 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	DC	
4510.text	Dangereux pour l'environnement aquatique de catégorie aiguë 1 ou chronique 1.		
4510.1	La quantité totale susceptible d'être présente dans l'installation étant : 1. Supérieure ou égale à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 100 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	A	1
4510.2	La quantité totale susceptible d'être présente dans l'installation étant : 2. Supérieure ou égale à 20 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 100 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	DC	

Germany

Regulatory reference : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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Netherlands

Waterbezwaarlijkheid	: B (1) - Very toxic to aquatic organisms
Saneringsinspanningen	: B - Lozing minimaliseren; toepassen van best uitvoerbare technieken
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: Xylene is listed

Denmark

Class for fire hazard	: Class II-1
Store unit	: 5 liter
Classification remarks	: R10 <H226;H315;H317;H319;H334;H335;H336;H351;H373;H410>; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with epoxy resins and isocyanates must be observed during use and disposal The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

Not required

For the following substances of this mixture a chemical safety assessment has been carried out

2-methoxy-1-methylethyl acetate
Xylene
Diphenylmethanediisocyanate, isomeres and homologues
4,4'-methylenediphenyl diisocyanate
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)


SECTION 16: Other information

Indication of changes:

2.2	Label elements	Modified	
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Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
	ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
	CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods Code
	LEL = Lower Explosive Limit/Lower Explosion Limit
	UEL = Upper Explosion Limit/Upper Explosive Limit
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level

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	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	Erl50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)


Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). SDS supplier.

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information : Classification - Assessment method: CLP Calculation method (Article 9). Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

Full text of H- and EUH-statements:

	As from 24 August 2023 adequate training is required before industrial or professional use
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
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.

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H319	Causes serious eye irritation.
H330	Fatal 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.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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