

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended


NEXLER Connect

Creation date 17th September 2024
Revision date Version 1.0

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

- 1.1. Product identifier**
Substance / mixture NEXLER Connect
mixture
UFI JDV1-401M-S00V-NQUP
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Asphalt mass used primarily for the maintenance of roof coverings made of asphalt felt.
Main intended use
PC-CON-5 Construction chemicals
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name NEXLER sp. z o.o.
Address Łużycka 6, Gdynia, 81-537
Poland
Identification number (CRN) 191528483
VAT Reg No PL5862073821
Phone +48 58 781 45 85
E-mail info@nexler.com
Web address www.nexler.com
- Competent person responsible for the safety data sheet**
Name NEXLER sp. z o.o.
E-mail info@nexler.com
- 1.4. Emergency telephone number**
National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.
- Flam. Liq. 3, H226
Skin Irrit. 2, H315
Skin Sens. 1, H317
Eye Irrit. 2, H319
STOT RE 2, H373
- Most serious adverse physico-chemical effects**
Flammable liquid and vapour.
- Most serious adverse effects on human health and the environment**
Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.
- 2.2. Label elements**
Hazard pictogram
- 
- Signal word**
Warning

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Hazardous substances

reaction mass of ethylbenzene and xylene
trimethoxyvinylsilane
N-(3-(trimethoxysilyl)propyl)ethylenediamine

Hazard statements

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

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264 Wash hands and exposed parts of the body thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P501 Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 905-588-0 Registration number: 01-2119488216-32	reaction mass of ethylbenzene and xylene	10-13	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373	1, 2
Index: 014-049-00-0 CAS: 2768-02-7 EC: 220-449-8 Registration number: 01-2119513215-52	trimethoxyvinylsilane	<2	Flam. Liq. 3, H226 Skin Sens. 1B, H317 Acute Tox. 4, H332	
CAS: 1760-24-3 EC: 217-164-6 Registration number: 01-2119970215-39	N-(3-(trimethoxysilyl)propyl) ethylenediamine	<1	Skin Sens. 1B, H317 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT RE 2, H373 (respiratory tract) (inhalation)	
CAS: 6674-22-2 EC: 229-713-7 Registration number: 01-2119977097-24	1,8-diazabicyclo[5.4.0]undec-7-ene	<0.25	Acute Tox. 3, H301 Skin Corr. 1B, H314 Eye Dam. 1, H318	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-001-00-X CAS: 67-56-1 EC: 200-659-6 Registration number: 01-2119433307-44	methanol	<0.05	Flam. Liq. 2, H225 Acute Tox. 3, H301+H311+H331 STOT SE 1, H370 (central nervous system, eyes) Specific concentration limit: STOT SE 1, H370: C ≥ 10 % STOT SE 2, H371: 3 % ≤ C < 10 %	1, 3

Notes

- 1 A substance for which exposure limits are set.
- 2 Substance for which biological limit values exist.
- 3 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

If inhaled

Not expected.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

Symptomatic treatment.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Prevent contact with skin and eyes. No smoking. Contaminated work clothing should not be allowed out of the workplace. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight.

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value
Xylene, o-,m-,p- or mixed isomers	WEL 8h	220 mg/m ³
	WEL 8h	50 ppm

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United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value
Xylene, o-,m-,p- or mixed isomers	WEL 15min	441 mg/m ³
	WEL 15min	100 ppm
ethylbenzene	WEL 8h	441 mg/m ³
	WEL 8h	100 ppm
	WEL 15min	552 mg/m ³
	WEL 15min	125 ppm
methanol (CAS: 67-56-1)	WEL 8h	266 mg/m ³
	WEL 8h	200 ppm
	WEL 15min	333 mg/m ³
	WEL 15min	250 ppm

Notes

Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

Biological limit values

United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Name	Parameter	Value	Tested material	Time of sampling
Xylene – mixture of isomers	Methylhippuric acids	650 mmol/mol creatinine	Urine	End of shift

DNEL

1,8-diazabicyclo[5.4.0]undec-7-ene

Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	10.6 mg/m ³	Chronic effects systemic
Workers	Dermal	3 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	2.6 mg/m ³	Chronic effects systemic
Consumers	Dermal	1.5 mg/kg bw/day	Chronic effects systemic
Consumers	Oral	1.5 mg/kg bw/day	Chronic effects systemic

methanol

Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	130 mg/m ³	Chronic effects systemic
Workers	Inhalation	130 mg/m ³	Acute effects systemic
Workers	Inhalation	130 mg/m ³	Chronic effects local
Workers	Inhalation	130 mg/m ³	Acute effects local
Workers	Dermal	20 mg/kg bw/day	Chronic effects systemic
Workers	Dermal	20 mg/kg bw/day	Acute effects systemic
Consumers	Inhalation	26 mg/m ³	Chronic effects systemic
Consumers	Inhalation	26 mg/m ³	Acute effects systemic
Consumers	Inhalation	26 mg/m ³	Chronic effects local
Consumers	Inhalation	26 mg/m ³	Acute effects local
Consumers	Dermal	4 mg/kg bw/day	Chronic effects systemic
Consumers	Dermal	4 mg/kg bw/day	Acute effects systemic
Consumers	Oral	4 mg/kg bw/day	Chronic effects systemic
Consumers	Oral	4 mg/kg bw/day	Acute effects systemic

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reaction mass of ethylbenzene and xylene			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	442 mg/m ³	Acute effects systemic
Workers	Inhalation	442 mg/m ³	Acute effects local
Workers	Dermal	212 mg/kg bw/day	Chronic effects systemic
Workers	Inhalation	221 mg/m ³	Chronic effects local
Workers	Inhalation	221 mg/m ³	Chronic effects systemic
Consumers	Inhalation	260 mg/m ³	Acute effects systemic
Consumers	Inhalation	260 mg/m ³	Acute effects local
Consumers	Dermal	125 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	65.3 mg/m ³	Chronic effects systemic
Consumers	Inhalation	65.3 mg/m ³	Chronic effects local
Consumers	Oral	12.5 mg/kg bw/day	Chronic effects systemic

trimethoxyvinylsilane			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	27.6 mg/m ³	Chronic effects systemic
Workers	Inhalation	73.6 mg/m ³	Acute effects systemic
Workers	Dermal	0.91 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	6.8 mg/m ³	Chronic effects systemic
Consumers	Inhalation	54.4 mg/m ³	Acute effects systemic
Consumers	Dermal	0.63 mg/kg bw/day	Chronic effects systemic
Consumers	Oral	0.63 mg/kg bw/day	Chronic effects systemic

PNEC

1,8-diazabicyclo[5.4.0]undec-7-ene	
Route of exposure	Value
Drinking water	0.24 mg/l
Water (intermittent release)	0.5 mg/l
Marine water	0.024 mg/l
Microorganisms in sewage treatment	13 mg/l
Freshwater sediment	1.46 mg/kg of dry substance of sediment
Sea sediments	0.146 mg/kg of dry substance of sediment
Soil (agricultural)	0.152 mg/kg of dry substance of soil

N-(3-(trimethoxysilyl)propyl)ethylenediamine	
Route of exposure	Value
Drinking water	0.05 mg/l
Water (intermittent release)	0.072 mg/l
Marine water	0.005 mg/l
Microorganisms in sewage treatment	20 mg/l
Freshwater sediment	0.181 mg/kg of dry substance of sediment
Sea sediments	0.018 mg/kg of dry substance of sediment
Soil (agricultural)	0.007 mg/kg of dry substance of soil

reaction mass of ethylbenzene and xylene	
Route of exposure	Value
Drinking water	0.327 mg/l
Marine water	0.327 mg/l

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reaction mass of ethylbenzene and xylene	
Route of exposure	Value
Freshwater sediment	12.46 mg/kg of dry substance of sediment
Sea sediments	12.46 mg/kg of dry substance of sediment
Soil (agricultural)	2.31 mg/kg of dry substance of soil
Water (intermittent release)	0.327 mg/l
Microorganisms in sewage treatment	6.58 mg/l

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Under regular circumstances it is not necessary. In case of inadequate ventilation wear respiratory protection.

Thermal hazard

Data not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	black
Odour	characteristic
Melting point/freezing point	<-20 °C
Boiling point or initial boiling point and boiling range	≥136 °C
Flammability	flammable liquid and vapor
Lower and upper explosion limit	not determined
Flash point	31-40 °C
Auto-ignition temperature	not determined
reaction mass of ethylbenzene and xylene	432-528 °C
trimethoxyvinylsilane (CAS: 2768-02-7)	224 °C
Decomposition temperature	not determined
pH	reacts with water
Kinematic viscosity	>20.5 mm ² /s at 40 °C
Viscosity	thixotropic behaviour
Solubility in water	reacts with water
Partition coefficient n-octanol/water (log value)	does not apply to mixtures
Vapour pressure	not determined
methanol (CAS: 67-56-1)	169.27 hPa at 25 °C
reaction mass of ethylbenzene and xylene	6.5-9.5 hPa at 20 °C
trimethoxyvinylsilane (CAS: 2768-02-7)	11.9 hPa at 20 °C
Density and/or relative density	
Density	1.25 g/cm ³ at 22 °C
Relative vapour density	>1
Particle characteristics	applies to solids

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9.2. Other information
not available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product cures under the influence of moisture.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents. Protect from moisture.

10.6. Hazardous decomposition products

Not developed under normal uses.

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

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

1,8-diazabicyclo[5.4.0]undec-7-ene						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	>215-<681 mg/kg bw		Rat (Rattus norvegicus)	F/M

methanol						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		1187≤...≤2769 mg/kg bw		Rat (Rattus norvegicus)	F/M
Inhalation	LC ₅₀		43.68 mg/l of air	6 hours	Cat	
Dermal	LD ₅₀		17100 mg/kg bw		Rabbit	

N-(3-(trimethoxysilyl)propyl)ethylenediamine						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	EPA OPPTS 870.1100	2295 mg/kg bw		Rat (Rattus norvegicus)	F/M
Inhalation (aerosols)	LC ₅₀	EPA OPPTS 870.1300	>1.49-<2.44 mg/l of air	4 hours	Rat (Rattus norvegicus)	F/M
Dermal	LD ₅₀	EPA OPPTS 870.1200	>2000 mg/kg bw	24 hours	Rabbit	F/M

reaction mass of ethylbenzene and xylene						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	EU B.1	3523 mg/kg bw		Rat	M
Inhalation (vapor)	LC ₅₀	EU B.2	27124 mg/m ³	4 hours	Rat	M
Skin	LD ₅₀		12126 mg/kg bw		Rabbit	M

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trimethoxyvinylsilane						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	6899-7012 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	F/M
Inhalation (vapor)	LC ₅₀	OECD 403	16.8 mg/l of air	4 hours	Rat (<i>Rattus norvegicus</i>)	F/M
Dermal	LD ₅₀	OECD 402	3158 mg/kg bw	24 hours	Rabbit	F

Skin corrosion/irritation

Causes skin irritation.

1,8-diazabicyclo[5.4.0]undec-7-ene					
Route of exposure	Result	Method	Exposure time	Species	Source
Dermal	Corrosive		4 hours		Corrositex (in vitro)

reaction mass of ethylbenzene and xylene					
Route of exposure	Result	Method	Exposure time	Species	Source
Dermal	Irritating	EU B.4	4 hours	Rabbit	

Irritation

reaction mass of ethylbenzene and xylene			
Route of exposure	Result	Exposure time	Species
Inhalation	Irritating		

Serious eye damage/irritation

Causes serious eye irritation.

N-(3-(trimethoxysilyl)propyl)ethylenediamine				
Route of exposure	Result	Method	Exposure time	Species
Eye	Serious eye damage	OECD 405		Rabbit

reaction mass of ethylbenzene and xylene				
Route of exposure	Result	Method	Exposure time	Species
Eye	Irritating			Rabbit

Respiratory or skin sensitisation

May cause an allergic skin reaction.

N-(3-(trimethoxysilyl)propyl)ethylenediamine					
Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Sensitizing	OECD 406		Guinea-pig (<i>Cavia aperea f. porcellus</i>)	F/M

Germ cell mutagenicity

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

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Carcinogenicity

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

Reproductive toxicity

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

Toxicity for specific target organ - single exposure

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

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

1,8-diazabicyclo[5.4.0]undec-7-ene							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 408	120 mg/kg bw/day	90 days	Rat (Rattus norvegicus)	F/M

methanol							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Inhalation	NOAEC	Systemic effects		13 mg/m ³	29 months	Monkey	

N-(3-(trimethoxysilyl)propyl)ethylenediamine							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 422	≥500 mg/kg bw/day	28 days	Rat (Rattus norvegicus)	F/M
Inhalation (aerosols)	NOAEC	Local effects	OECD 413	15 mg/m ³ of air	90 days	Rat (Rattus norvegicus)	F/M

reaction mass of ethylbenzene and xylene							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	EU B.32	250 mg/kg bw/day	103 weeks	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	NOAEC	Systemic effects		3515 mg/m ³	13 weeks	Dog	M

trimethoxyvinylsilane							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 422	62.5 mg/kg bw/day	42 days	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	NOAEC	Systemic effects		605 mg/m ³ of air	14 weeks	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	NOAEC	Local effects		2421 mg/m ³ of air	14 weeks	Rat (Rattus norvegicus)	F/M

Aspiration hazard

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

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11.2. Information on other hazards

Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Acute toxicity

1,8-diazabicyclo[5.4.0]undec-7-ene					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		146.6 mg/l	96 hours	Fish (<i>Leuciscus idus</i>)	
EC ₅₀		50 mg/l	48 hours	Aquatic invertebrates (<i>Daphnia magna</i>)	
EC ₅₀		>100 mg/l	72 hours	Algae (<i>Desmodesmus subspicatus</i>)	
EC ₂₀	ISO 8192	650 mg/l	30 minutes	Aquatic microorganisms	Activated sludge

methanol					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		15400 mg/l	96 hours	Fish (<i>Lepomis macrochirus</i>)	
EC ₅₀	OECD 202	18260 mg/l	96 hours	Aquatic invertebrates (<i>Daphnia magna</i>)	
EC ₅₀	OECD 201	22000 mg/l	96 hours	Algae (<i>Raphidocelis subcapitata</i>)	
IC ₅₀	OECD 209	>1000 mg/l	3 hours	Aquatic microorganisms	Activated sludge

reaction mass of ethylbenzene and xylene					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀	OECD 203	2.6 mg/l	96 hours	Fish (<i>Oncorhynchus mykiss</i>)	
EC ₅₀	OECD 201	2.2 mg/l	73 hours	Algae (<i>Pseudokirchneriella subcapitata</i>)	
EC ₅₀	OECD 209	>157 mg/l	3 hours	Aquatic microorganisms	Activated sludge
NOEC	OECD 201	0.44 mg/l	72 hours	Algae (<i>Pseudokirchneriella subcapitata</i>)	
IC ₅₀		220 mg/kg of dry substance of soil	10 hours	Microorganisms	
EC ₅₀	OECD 202	1 mg/l	24 hours	Aquatic invertebrates (<i>Daphnia magna</i>)	

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trimethoxyvinylsilane					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		191 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	EU C.2	168.7 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
NOEC		>89 mg/l	72 hours	Algae (Raphidocelis subcapitata)	
EC ₅₀	OECD 209	>100 mg/l	3 hours	Aquatic microorganisms	

Chronic toxicity

reaction mass of ethylbenzene and xylene					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC		>1.3 mg/l	56 days	Fish (Salmo gairdneri)	
NOEC		0.96 mg/l	7 days	Aquatic invertebrates (Ceriodaphnia dubia)	
NOEC	OECD 301F	16 mg/l	28 days	Aquatic microorganisms	Activated sludge
NOEC		16 mg/kg of dry substance of soil	14 weeks	Invertebrates (Eisenia andrei)	

trimethoxyvinylsilane					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 211	28.1 mg/l	21 days	Aquatic invertebrates (Daphnia magna)	

12.2. Persistence and degradability

The product is partially biodegradable.

Biodegradability

1,8-diazabicyclo[5.4.0]undec-7-ene				
Parameter	Value	Exposure time	Environment	Result
				Hardly biodegradable

methanol				
Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable

N-(3-(trimethoxysilyl)propyl)ethylenediamine				
Parameter	Value	Exposure time	Environment	Result
				Hydrolytically unstable

reaction mass of ethylbenzene and xylene				
Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable

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trimethoxyvinylsilane

Parameter	Value	Exposure time	Environment	Result
				Hydrolytically unstable

12.3. Bioaccumulative potential

Bioaccumulation is not expected.

1,8-diazabicyclo[5.4.0]undec-7-ene

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	OECD 107	-0.43				25°C

methanol

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow		-0.77				20°C

reaction mass of ethylbenzene and xylene

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
BCF		25.9				
Log Pow		3.16				20°C

12.4. Mobility in soil

The product is insoluble in water and does not show mobility in soil.

1,8-diazabicyclo[5.4.0]undec-7-ene

Parameter	Method	Value	Temperature	Value determination
Log Koc		1.4	25°C	Calculation of value

reaction mass of ethylbenzene and xylene

Parameter	Method	Value	Temperature	Value determination
Log Koc	OECD 121	2.73		

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Danger of environmental contamination, follow the applicable waste disposal regulations. Store unused product and contaminated packaging in closed containers for waste collection and hand over for disposal to a specialized company authorized to conduct such activity. Do not pour unused product into drains. It must not be disposed of together with municipal waste. Empty packaging can be used for energy in a waste incineration plant or collected in a landfill with an appropriate classification. Perfectly cleaned packaging can be recycled. The classification of waste may change depending on where it is generated.

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Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

UN 1993

14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (contains: reaction mass of ethylbenzene and xylene)

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III

14.5. Environmental hazards

No.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

NOTE: The product packed in receptacles with a capacity of not more than 450 liters is not subject to the provisions of ADR (2.2.3.1.5).

Hazard identification No.

30

UN number

1993

Classification code

F1

Safety signs

3



Tunnel restriction code

(D/E)

Marine transport - IMDG

EmS (emergency plan)

F-E, S-E

MFAG

310

SECTION 15: Regulatory information

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

Clean Air Act 1993 as amended. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

methanol

Restriction	Conditions of restriction
69	Shall not be placed on the market to the general public after 9 May 2019 in windscreen washing or defrosting fluids, in a concentration equal to or greater than 0,6 % by weight.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H304	May be fatal if swallowed and enters airways.
H312+H332	Harmful in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H370	Causes damage to the central nervous system, the eyes.
H370	Causes damage to organs.
H371	May cause damage to organs.
H373	May cause damage to the respiratory tract through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.

Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P501	Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

Acute Tox.	Acute toxicity
ADR	European agreement concerning the international carriage of dangerous goods by road
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₂₀	Concentration of a substance when it is affected 20 % of the population
EC ₅₀	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan

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EU	European Union
EuPCS	European Product Categorisation System
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log K _{ow}	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method and based on tests of physicochemical properties.

Statement

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The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.