

m-Xylene for synthesis

Revision date: 22.09.2023

Product code: 25321

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

1.1. Product identifier

m-Xylene for synthesis

108-38-3
601-022-00-9
203-576-3

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

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone:0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMT	REC Day or Night Within USA and Canada:
	1-800-424-9300 Outside USA and 0	Canada: +1 703-741-5970 (collect calls
	accepted)	

Further Information

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

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

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Danger



according to Regulation (EC) No 1907/2006

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Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P273	Avoid release to the environment.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C8H10
Molecular weight:	106,16 g/mol

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
108-38-3	xylene (m)			100 %
	203-576-3	601-022-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	imits, M-factors and ATE	
108-38-3	203-576-3	xylene (m)	100 %
inhalation: LC50 = 6247 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 12126 mg/kg; oral: LD50 = 3523 mg/kg			

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures



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General information

No data available

After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. Call a physician immediately.

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

Irritant Dizziness Vapours may cause drowsiness and dizziness. Headache Agitation Spasms Anaesthetic state Pulmonary oedema Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam

Carbon dioxide (CO2) Extinguishing powder

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely.



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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe vapour/aerosol. Provide adequate ventilation.

Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Further information on storage conditions

Keep container tightly closed. Keep container dry. Keep cool. Protect from sunlight. storage temperature $+5^{\circ}C - +30^{\circ}C$

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
108-38-3	Xylene m-isomer	50	221		TWA (8 h)	
		100	442		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
108-38-3	xylene (m)			
Worker DNEL	acute	inhalation	local	442 mg/m ³
Worker DNEL	long-term	dermal	systemic	212 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	65,3 mg/m³
Consumer DN	EL, acute	inhalation	systemic	260 mg/m ³
Consumer DN	EL, long-term	inhalation	local	65,3 mg/m³
Consumer DN	EL, acute	inhalation	local	260 mg/m³
Consumer DN	EL, long-term	dermal	systemic	125 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	2,5 mg/kg bw/day
Worker DNEL	acute	inhalation	systemic	442 mg/m ³
Worker DNEL	long-term	inhalation	systemic	221 mg/m ³
Worker DNEL	long-term	inhalation	local	221 mg/m ³



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PNEC values

CAS No	Substance		
Environmental compartment Value			
108-38-3	xylene (m)		
Freshwater		0,044 mg/l	
Freshwater (intermittent releases) 0,01 mg/l			
Marine water 0,004 mg/l			
Freshwater sediment 2,52 mg/kg			
Marine sediment 0,252 mg/kg			
Micro-organisms in sewage treatment plants (STP) 1,6 mg/l		1,6 mg/l	
Soil 0,852 mg/kg		0,852 mg/kg	

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles Face protection umbrella

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 890 Vitoject® Suitable material: FKM (fluoro rubber) 0,7 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 730 Camatril® Velours Suitable material: NBR (Nitrile rubber) 0,4 mm Wearing time with occasional contact (splashes): > 30 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Take off immediately all contaminated clothing and wash it before reuse.

Wear fire resistant or flame retardant clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device with filter or ventilator filtering device of type: A

Environmental exposure controls

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.



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Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	-48 °C
Boiling point or initial boiling point an	nd 139 °C
boiling range:	
Flammability:	No data available
Lower explosion limits:	1,1 vol. %
Upper explosion limits:	7 vol. %
Flash point:	27 °C
Auto-ignition temperature:	525 °C
Decomposition temperature:	No data available
pH-Value:	No data available
Viscosity / kinematic:	No data available
Water solubility:	
(at 20 °C)	0,2 g/L
Solubility in other solvents	
No data available	
Dissolution rate:	No data available
Partition coefficient n-octanol/water:	
Dispersion stability:	No data available
Vapour pressure:	8 hPa
(at 20 °C)	01114
Vapour pressure:	No data available
Density:	0,85985 g/cm ³
Relative density:	No data available
Bulk density:	No data available
Relative vapour density:	No data available
Particle characteristics:	No data available
2. Other information	
	I hazard classos
Information with regard to physical	I hazard classes
Information with regard to physical Explosive properties	
Information with regard to physical Explosive properties Vapours are heavier than air, spr	read along floors and form explosive mixtures with air.
Information with regard to physical Explosive properties Vapours are heavier than air, spr Sustaining combustion:	
Information with regard to physical Explosive properties Vapours are heavier than air, spr Sustaining combustion: Self-ignition temperature	read along floors and form explosive mixtures with air. Sustaining combustion
Information with regard to physical Explosive properties Vapours are heavier than air, spr Sustaining combustion: Self-ignition temperature Solid:	read along floors and form explosive mixtures with air.
Information with regard to physical Explosive properties Vapours are heavier than air, spr Sustaining combustion: Self-ignition temperature Solid: Gas:	read along floors and form explosive mixtures with air. Sustaining combustion No data available
Information with regard to physical Explosive properties Vapours are heavier than air, spr Sustaining combustion: Self-ignition temperature Solid:	read along floors and form explosive mixtures with air. Sustaining combustion No data available
Information with regard to physical Explosive properties Vapours are heavier than air, spr Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties No data available	read along floors and form explosive mixtures with air. Sustaining combustion No data available
Information with regard to physical Explosive properties Vapours are heavier than air, spr Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties No data available Other safety characteristics	read along floors and form explosive mixtures with air. Sustaining combustion No data available No data available
Information with regard to physical Explosive properties Vapours are heavier than air, spr Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties No data available Other safety characteristics Evaporation rate:	read along floors and form explosive mixtures with air. Sustaining combustion No data available No data available No data available
Information with regard to physical Explosive properties Vapours are heavier than air, spr Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties No data available Other safety characteristics Evaporation rate: Solvent separation test:	read along floors and form explosive mixtures with air. Sustaining combustion No data available No data available No data available No data available
Information with regard to physical Explosive properties Vapours are heavier than air, spr Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties No data available Other safety characteristics Evaporation rate: Solvent separation test: Solvent content:	read along floors and form explosive mixtures with air. Sustaining combustion No data available No data available No data available No data available No data available 100%
Information with regard to physical Explosive properties Vapours are heavier than air, spr Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties No data available Other safety characteristics Evaporation rate: Solvent separation test: Solvent content: Solid content:	read along floors and form explosive mixtures with air. Sustaining combustion No data available No data available No data available 100% No data available
Information with regard to physical Explosive properties Vapours are heavier than air, spr Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties No data available Other safety characteristics Evaporation rate: Solvent separation test: Solvent content:	read along floors and form explosive mixtures with air. Sustaining combustion No data available No data available No data available No data available No data available 100%



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	No data available			
Viscosity / dynamic: (at 25 °C)	0,581 mPa·s			
Flow time:	No data available			
Further Information				
No data available				

SECTION 10: Stability and reactivity

10.1. Reactivity

In case of warming:

Vapours may form explosive mixtures with air.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent Sulphuric acid, concentrated SULPHUR Nitric acid

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Rubber articles plastic

10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

Harmful in contact with skin. Harmful if inhaled. Pulmonary oedema Pneumonia

CAS No	Chemical name	Chemical name						
	Exposure route	Dose		Species	Source	Method		
108-38-3	xylene (m)							
	oral	LD50 mg/kg	3523	Rat	Study report (1986)	EU Method B.1		
	dermal	LD50 mg/kg	12126	Rabbit	Publication (1962)	Single dermal dose under occlusion follo		
	inhalation (4 h) vapour	LC50	6247 mg/l	Rat	Study report (1986)	EPA OPP 81-3		
	inhalation dust/mist	ATE	1,5 mg/l					



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Irritation and corrosivity

Causes skin irritation. Causes serious eye irritation. Has degreasing effect on the skin.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause respiratory irritation. (xylene (m))

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (xylene (m))

Aspiration hazard

May be fatal if swallowed and enters airways.

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

No data available

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information

No data available

Further information

Irritant Dizziness Vapours may cause drowsiness and dizziness. Headache Agitation Spasms Anaesthetic state Pulmonary oedema Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

SECTION 12: Ecological information

12.1. Toxicity



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CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
108-38-3	xylene (m)							
	Acute fish toxicity	LC50	2,6 mg/l	96 h	Oncorhynchus mykiss	Ecotoxicology and Environmental Safety.	OECD Guideline 203	
	Acute algae toxicity	ErC50	4,9 mg/l	72 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety.	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	> 3,4	48 h	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003	
	Fish toxicity	NOEC mg/l	0,714	35 d	Danio rerio	Study report (2017)	OECD Guideline 210	
	Crustacea toxicity	NOEC mg/l	1,57	21 d	Daphnia magna	Study report (2005)	OECD Guideline 211	
	Acute bacteria toxicity	(EC50 mg/l)	> 198	0,5 h	Activated sludge	Research Journal WPCF 60(10) 1850-1856 (OECD Guideline 209	

12.2. Persistence and degradability

Readily biodegradable (according to OECD criteria). (MSDS)

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-38-3	xylene (m)	3,15

BCF

CAS No	Chemical name	BCF	Species	Source
108-38-3	xylene (m)	> 5,5 - < 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E

12.4. Mobility in soil

log Koc: 2,29

(MSDS)

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Do not allow to enter into surface water or drains.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not mix with other wastes.

Do not empty into drains.



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Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 1307
14.2. UN proper shipping name:	XYLENES
14.3. Transport hazard class(es):	3
14.4. Packing group:	111
Hazard label:	3
Classification code:	5 F1
	5 L
Limited quantity:	-
Excepted quantity:	E1
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1307
14.2. UN proper shipping name:	XYLENES
14.3. Transport hazard class(es):	3
14.4. Packing group:	
Hazard label:	3
	5 F1
Classification code:	• •
Limited quantity:	5 L
Excepted quantity:	E1
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1307
14.2. UN proper shipping name:	XYLENES
14.3. Transport hazard class(es):	3
14.4. Packing group:	111
Hazard label:	3
Special Provisions:	223
Limited quantity:	5 L
	E1
Excepted quantity:	
EmS:	F-E, S-D
Air transport (ICAO-TI/IATA-DGR)	
<u>14.1. UN number or ID number:</u>	UN 1307
14.2. UN proper shipping name:	XYLENES
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Special Provisions:	A3
Limited quantity Passenger:	10 L
Passenger LQ:	Y344
	-
Excepted quantity:	E1
IATA-packing instructions - Passenger:	
IATA-max. quantity - Passenger:	
IATA-packing instructions - Cargo:	
IATA-max. quantity - Cargo:	
14.5. Environmental hazards	



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ENVIRONMENTALLY HAZARDOUS:	No					
SECTION 15: Regulatory information	SECTION 15: Regulatory information					
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture						
EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 40 Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS					
National regulatory information						
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC). Observe employment restriction under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	ns				
Water hazard class (D):	2 - obviously hazardous to water					

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 12.

Abbreviations and acronyms

Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Asp. Tox: Aspiration hazard Skin Irrit: Skin irritation Eye Irrit: Eye irritation STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated exposure

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.