

EC safety data sheet

Trade name: m-Xylene

Product no.: MGCE-073

Current version : 1.0.0, issued: 20.05.2019

Replaced version: -, issued: -

Region: GB

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

1.1 Product identifier

Trade name

m-Xylene

Substance name m-xylene
REACH registration no. 01-2119484621-37-0005

Identification numbers

CAS no. 108-38-3
EC no. 203-576-3
Index no. 601-022-00-9

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

Relevant identified uses of the substance or mixture

Industrial use
laboratory chemical
Intermediate

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Mitsubishi Gas Chemical Europe GmbH
Immermannstraße 13
40210 Düsseldorf

Telephone no. +49 (0) 211-363 080
Fax no. +49 (0) 211-354 457

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H312
Acute Tox. 4; H332
Aquatic Chronic 3; H412
Asp. Tox. 1; H304
Eye Irrit. 2; H319
Flam. Liq. 3; H226
Skin Irrit. 2; H315
STOT SE 3; H335

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:
Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP
Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3 and 4 of Annex I to CLP.
aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

2.2 Label elements

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

Product identifier

108-38-3 (m-xylene)

Hazard pictograms



GHS02



GHS07



GHS08

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Signal word

Danger

Hazard statement(s)

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.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use water spray, extinguishing powder, foam or CO2 to extinguish.

2.3 Other hazards

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical characterization

Substance name m-xylene

Identification numbers

CAS no.	108-38-3
EC no.	203-576-3
Index no.	601-022-00-9

3.2 Mixtures

Not applicable. The product is not a mixture.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position. In case of persisting adverse effects, consult a physician.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Call a doctor immediately.

After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

After ingestion

Do not induce vomiting - aspiration hazard. Call a doctor immediately. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Effects

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet; Alcohol-resistant foam; Carbon dioxide; Extinguishing powder

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: carbon oxides (COx)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water. Run-off water from fire fighting must not be discharged into drains or enter surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Exclude sources of ignition and ventilate the area.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see chapter 7. Information regarding personal protective measures, see chapter 8. Information regarding waste disposal, see chapter 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Isolate from sources of heat, sparks and open flame. Take precautionary measures against electrostatic loading (earthing necessary during loading operations). Use explosion-proof equipment/fittings and non-sparking tools.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Advice on storage assembly

Substances to be avoided, pls. See chapter 10.

7.3 Specific end use(s)

No data available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
	2000/39/EC		
	m-Xylene		
	WEL short-term (15 min reference period)	442	mg/m ³ 100 ppm
	WEL long-term (8-hr TWA reference period)	221	mg/m ³ 50 ppm
	Skin resorption / sensibilisation	Skin	
	List of approved workplace exposure limits (ZE) / EH40		
	Xylene, o-, m-, p- or mixed isomers		
	WEL short-term (15 min reference period)	441	mg/m ³ 100 ppm
	WEL long-term (8-hr TWA reference period)	220	mg/m ³ 50 ppm
	Comments	Sk, BMGV	

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	m-xylene			108-38-3 203-576-3
	dermal	Long term (chronic)	systemic	212 mg/kg/day
	inhalative	Short term (acute)	local	442 mg/m ³
	inhalative	Short term (acute)	systemic	442 mg/m ³
	inhalative	Long term (chronic)	local	221 mg/m ³
	inhalative	Long term (chronic)	systemic	221 mg/m ³

DNEL value (consumer)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	m-xylene			108-38-3 203-576-3
	oral	Long term (chronic)	systemic	2.5 mg/kg/day
	dermal	Long term (chronic)	systemic	125 mg/kg/day
	inhalative	Short term (acute)	local	260 mg/m ³
	inhalative	Short term (acute)	systemic	260 mg/m ³
	inhalative	Long term (chronic)	local	65.3 mg/m ³
	inhalative	Long term (chronic)	systemic	65.3 mg/m ³

PNEC values

No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	m-xylene		108-38-3 203-576-3
	water	fresh water	0.044 mg/L
	water	marine water	0.004 mg/L
	water	fresh water sediment	2.52 mg/kg dry weight
	water	marine water sediment	0.252 mg/kg dry weight
	soil	-	0.852 mg/kg dry weight
	sewage treatment plant	-	1.6 mg/L

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respiratory filter (gas) : A

Eye / face protection

Safety glasses with side protection shield (EN 166)

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Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	Fluoro elastomer (FKM)
Material thickness	0.4 mm
Inappropriate material	polyvinyl chloride (PVC), nitrile butadiene rubber (NBR), polychloroprene (CR)
Inappropriate material	Natural rubber, NR
Inappropriate material	butyl

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour	
liquid	
colourless	
Odour	
characteristic	
Odour threshold	
No data available	
pH value	
No data available	
Boiling point / boiling range	
Value	139.1 °C
Source	CSR
Melting point / melting range	
Value	-47.9 °C
Source	CSR
Decomposition point / decomposition range	
No data available	
Flash point	
Value	27 °C
Source	CSR
Auto-ignition temperature	
Value	527 °C
Source	CSR
Oxidising properties	
No data available	
Explosive properties	
No data available	
Flammability (solid, gas)	
No data available	
Lower flammability or explosive limits	
Value	1.1 % vol
Source	CSR
Upper flammability or explosive limits	
Value	7 % vol
Source	CSR
Vapour pressure	
Value	1106 Pa
Source	CSR

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Vapour density			
No data available			
Evaporation rate			
No data available			
Relative density			
No data available			
Density			
Value	0.86 g/cm ³		
Reference temperature	25 °C		
Solubility in water			
Value	146 mg/L		
Reference temperature	25 °C		
Solubility(ies)			
No data available			
Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
log Pow			3.2
Source	CSR		
Viscosity			
Value		0.58 mPa*s	
Reference temperature		25 °C	
Type	dynamic		
Value		0.67 mm ² /s	
Type	kinematic		

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	m-Xylene
ATE (Mixture)	12.50
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

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Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
LD50		6631	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	CSR		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	m-Xylene
ATE (Mixture)	125.00
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
LD50		12126	mg/kg bodyweight
Species	rabbit		
Source	CSR		
Evaluation/classification	Toxicity values do not meet the classification criteria of annex VI of regulation (EC) No 1272/2008, but have been taken into account in the CSR.		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	m-Xylene
ATE (Mixture)	0.3063
Route of exposure / physical form	Vapour
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
LC50		27.124	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
with reference to	CAS 106-42-3		
Method	EPA OPP 81-3		
Source	CSR		
Evaluation/classification	Toxicity values do not meet the classification criteria of annex VI of regulation (EC) No 1272/2008, but have been taken into account in the CSR.		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
Species	rabbit		
with reference to	CAS 106-42-3		
Method	EU B.4		
Source	CSR		
Evaluation	irritant		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
Species	rabbit		
with reference to	CAS 1330-20-7		
Source	CSR		
Evaluation	irritant		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
Route of exposure	Skin		
Species	mouse		
with reference to	CAS 1330-20-7		
Method	OECD 429		
Source	CSR		
Evaluation	non-sensitizing		

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Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
Source		CSR	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
Source		CSR	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
Source		CSR	
Evaluation/classification		Based on available data, the classification criteria are not met.	
STOT - single exposure			
No data available			
STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
Route of exposure		oral	
Source		CSR	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Aspiration hazard			
No data available			
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Corrosive effect of product in contact with skin, eyes and mucous membranes.			
Other information			
The acute toxic classification of the structurally similar hydrazines (i.e. hydrazine (CAS: 302-01-2), 1,1-dimethylhydrazine (CAS: 57-14-7) and/or 1,2-dimethylhydrazine (CAS: 540-73-8) can be extrapolated (according to the CSR) to methylhydrazine as it is between these three references in terms of chain length and differs only by one methyl group.			

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
LC50		8.4	mg/l
Duration of exposure		96	h
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		CSR	
Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
NOEC		>	1.3 mg/l
Duration of exposure		56	day(s)
Species		Oncorhynchus mykiss	
with reference to		CAS 1330-20-7	
Method		OECD 210	
Source		CSR	
Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
EC50		>	3.4 mg/l
Duration of exposure		48	h
Species		Ceriodaphnia dubia	
Method		US EPA 600/4-91-003	
Source		CSR	

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Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
	NOEC	1.17	mg/l
	Duration of exposure	7	day(s)
	Species	Ceriodaphnia dubia	
	Source	CSR	

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
	EC50	4.9	mg/l
	Duration of exposure	72	h
	Species	Pseudokirchneriella subcapitata	
	Method	OECD 201	
	Source	CSR	

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No data available			

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
	Type	BOD	
	Value	100	%
	Duration	28	day(s)
	Method	OECD 301 C	
	Source	CSR	
	Evaluation	readily biodegradable	

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
	BCF	25.9	
	Species	Oncorhynchus mykiss	
	with reference to	CAS 1330-20-7	
	Source	CSR	

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	m-xylene	108-38-3	203-576-3
	log Pow	3.2	
	Source	CSR	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The product is not considered to be a PBT.
vPvB assessment	The product is not considered to be a vPvB.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information
Do not discharge into the drains or waters and do not store on public depositories.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Dispose of according to all applicable regulations upon consultation of the local competent authorities and the disposer in a suitable and authorised disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	III
Hazard identification no.	30
UN number	UN1307
Proper shipping name	XYLENES
Tunnel restriction code	D/E
Label	3

14.2 Transport IMDG

Class	3
Packing group	III
UN number	UN1307
Proper shipping name	XYLENES
EmS	F-E, S-D
Label	3

14.3 Transport ICAO-TI / IATA

Class	3
Packing group	III
UN number	UN1307
Proper shipping name	Xylenes
Label	3

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

In accordance with the Reach regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

REACH candidate list of substances of very high concern (SVHC) for authorisation

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 40
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Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:	P5c
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15.2 Chemical safety assessment

A chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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