Printing date 18.01.2023

Version number 1

Revision: 18.01.2023

Product identifie	24
Trade name: <u>ort</u>	ho-xylene
Article number:	942
CAS Number: 95-47-6	
EC number:	
202-422-2	
<i>Index number:</i> 601-022-00-9	
	nber 01-2119485822-30
	ed uses of the substance or mixture and uses advised against
	<i>unt information available.</i> he substance / the mixture Solvent for various applications
Details of the su Manufacturer/S	pplier of the safety data sheet upplier:
Möller Chemie	
Bürgerkamp 1	
D-48565 Steinfur	
Tel.: 02551/9340 Fax: 02551/9340	
	tion obtainable from: Product safety department
Emergency telep Poison Control (none number: Center Mainz - 24 hour emergency service - Tel.: +49 (0) 6131/19240
Hazards idem	tification
Classification of	t <mark>ification</mark> T the substance or mixture ecording to Regulation (EC) No 1272/2008
Classification of Classification ac	the substance or mixture
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Classification of Classification ac GHS0. Flam. Liq. 3	the substance or mixture ecording to Regulation (EC) No 1272/2008 2 flame
Classification of Classification ac GHS0. Flam. Liq. 3	<i>The substance or mixture</i> <i>ecording to Regulation (EC) No 1272/2008</i> <i>2 flame</i> <i>H226 Flammable liquid and vapour.</i>
Classification of Classification ac GHS0. Flam. Liq. 3	The substance or mixture Ecording to Regulation (EC) No 1272/2008 2 flame H226 Flammable liquid and vapour. 8 health hazard H304 May be fatal if swallowed and enters airways.
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Classification of Classification ac GHS0. Flam. Liq. 3 GHS0. Asp. Tox. 1 CONTRACTOR OF Acute Tox. 4 Acute Tox. 4	 <i>The substance or mixture</i> <i>Coording to Regulation (EC) No 1272/2008</i> <i>2 flame</i> <i>H226 Flammable liquid and vapour.</i> <i>8 health hazard</i> <i>H304 May be fatal if swallowed and enters airways.</i> <i>7</i> <i>H312 Harmful in contact with skin.</i> <i>H332 Harmful if inhaled.</i>
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Classification ac GHS0. Flam. Liq. 3 Flam. Liq. 3 GHS0. Asp. Tox. 1 GHS0 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 STOT SE 3	The substance or mixture coording to Regulation (EC) No 1272/2008 2 flame H226 Flammable liquid and vapour. 8 health hazard H304 May be fatal if swallowed and enters airways. 7 H312 Harmful in contact with skin. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation.

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Trade name: ortho-xylene

View View View Signal word Danger Harard statements Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes skin irritation. H319 Causes serious eye irritation. H313 Causes serious eye irritation. H313 H314 Gauses serious eye irritation. H315 H315 Causes serious eye irritation. H316 H314 Harmful to aquatic life with long lasting effects. Freemationary statements P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P311 Do NOT induce voniting. P303+P351+P3351 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water for shower]. P303+P351+P3351 IF NN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, it present and easy to do. Continue rinsing. P305+P351+P3351 IF ON EYES: Sinse contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/internationar regulations. Other hazard Take off comaminated clothing and wash it before reuse. P405 Store locked up.	Hazard pictogra	(Contd. of page 1
Signal word Danger Hazard statements 11226 Flammable liquid and vapour. H312-H322 Harmful in contact with skin or if inhaled. H312-H332 Harmful in contact with skin or if inhaled. H313 Causes skin irritation. H314-H324 H324 H324 Harmful in contact with skin or if inhaled. H315 Causes serious eye irritation. H316 May be fatal if swallowed and enters airways. H412 Harmful to aquatch life with long lasting effects. Precautionary statements Precautionary statements P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P321 Specific treatment (see on this label). P301+P310 IF SWALLOWED: Immediately call a contaminated clothing. Rinse skin with water for shower]. P301+P314 Specific treatment (see on this label). P303+P361+P333 IF ON KSIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water for several minutes. Remove contact lenses, a present and eaxy to do. Continue rinsing. P302+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/internationa farputing properties established under Article 59(1) of Regulation (EU) No1907/2006 or under Commission D		
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H226 Flammable liquid and vapour: H312+H332 Harmful in contact with skin or if inhaled. H315 Causes skin irritation. H316 H317 Causes skin irritation. H318 May be fatal if swallowed and enters airways. H412 Harmful to aquatic life with long lasting effects. Precautionary statements Presultionary statements P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P321 Specific treatment (see on this label). P331 Do NOT induce vomiting. P301+P335 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin wit water for shower). P35+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, a present and easy to do. Continue rinsing. P362+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/internationa regulations. Other hazards The product does not contain any substance above the legal limits included on the list for endocrin disrupting properties established under Article 59(1) of Regulation (EU) 2017/2006 or under Commissio Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties. Results of PBT and vPvB assessme	Signal word Dar	1ger
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Other hazards The product does not contain any substance above the legal limits included on the list for endocrin disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commissio Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disruptin, properties. Results of PBT and vPvB assessment PBT: The product does not contain any substances above legal limits that meet the criteria for PBT (persisten. bioaccumulative and toxic). vPvB: The product does not contain any substances above legal limits that meet the criteria for vPvB (very persister and very bioaccumulative). Composition/information on ingredients Substances CAS No. Description 95-47-6 ortho-xylene Identification number(s) EC number: 202-422-2 Index number: 601-022-00-9 First aid measures After inhalation:	P501	
Substances CAS No. Description 95-47-6 ortho-xylene Identification number(s) EC number: 202-422-2 Index number: 601-022-00-9 First aid measures Description of first aid measures After inhalation:	properties. Results of PBT of PBT: The product does bioaccumulative vPvB: The product does	and vPvB assessment es not contain any substances above legal limits that meet the criteria for PBT (persisten and toxic). s not contain any substances above legal limits that meet the criteria for vPvB (very persisten
Substances CAS No. Description 95-47-6 ortho-xylene Identification number(s) EC number: 202-422-2 Index number: 601-022-00-9 First aid measures Description of first aid measures After inhalation:	bioaccumulative vPvB: The product doe, and very bioaccu	and toxic). s not contain any substances above legal limits that meet the criteria for vPvB (very persiste unulative).
95-47-6 ortho-xylene Identification number(s) EC number: 202-422-2 Index number: 601-022-00-9 First aid measures Description of first aid measures After inhalation:	Substances CAS No. Descrit	ntion
Identification number(s) EC number: 202-422-2 Index number: 601-022-00-9 First aid measures Description of first aid measures After inhalation:		
Index number: 601-022-00-9 First aid measures Description of first aid measures After inhalation:		
First aid measures Description of first aid measures After inhalation:		
Description of first aid measures After inhalation:	Index number:	501-022-00-9
After inhalation:	First aid mea	sures
After inhalation:	Durat di CC	

- persist.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 3)

EU

Printing date 18.01.2023

Version number 1

Revision: 18.01.2023

(Contd. of page 2)

Trade name: ortho-xylene

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Remove any existing contact lenses if possible. Continue rinsing.

• After swallowing:

Rinse out mouth. Do not induce vomiting.

Call a doctor immediately.

- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fire with alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture

In case of fire, the following can be released: Carbon monoxide, carbon dioxide

Vapors can form an explosive mixture with air.

• Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust). Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- · Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles:
- Keep container tightly closed Keep us in a cool, well-ventilated place.
- Information about storage in one common storage facility: Store away from oxidising agents.
- · Further information about storage conditions:
- Keep container tightly sealed.
- Protect from heat and direct sunlight.
- Storage class: 3
- *Specific end use(s) No further relevant information available.*

(Contd. on page 4)

Printing date 18.01.2023

Version number 1

Revision: 18.01.2023

(Contd. of page 3)

Trade name: ortho-xylene

Control	parameters
Ingredi	ents with limit values that require monitoring at the workplace:
95-47-6	ó o-xylene
IOELV	Short-term value: 442 mg/m ³ , 100 ppm
	Long-term value: 221 mg/m ³ , 50 ppm
	Skin
DNELs	
	(industry)
	, inhalative 221 mg/m ³ chronic - local effects
	, dermal 3,182 mg/kg chronic - systemic effects
	, inhalative 221 mg/m ³ chronic - systemic effects
	ers (private households)
	, inhalative 65.3 mg/m³ chronic - local effects , oral 12.5 mg/m³ chronic - systemic effects
	, dermal 1,872 mg/kg chronic - systemic effects
	, inhalative 65.3 mg/m ³ chronic - systemic effects
PNECs	
	vater 0.25 mg/l
	ter 0.25 mg/l
	treatment plant (STP) 5 mg/l
	ater sediment 14.33 mg/kg
	1 mg/kg
	0.25 mg/l
Marine	sediment 14.33 mg/kg
Additio	nal information: The lists valid during the making were used as basis.
Immedia Avoid c Do not Wash ha Respira In case use self-	nal precautionary measures are to be adhered to when handling chemicals. ately remove all soiled and contaminated clothing ontact with the eyes and skin. eat, drink, smoke or sniff while working. ands before breaks and at the end of work. atory protection: of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposu contained respiratory protective device. rotection
M12	Protective gloves
Selectio degrado Materia NBR: a	il of gloves crylonitrile butadiene rubber
The sele and var	carbon rubber (Viton) ection of the suitable gloves does not only depend on the material, but also on further marks of quai ries from manufacturer to manufacturer. I tion time of glove material
	ict break through time has to be found out by the manufacturer of the protective gloves and has to
The exa observe	d.

Printing date 18.01.2023

Version number 1

Revision: 18.01.2023

(Contd. of page 4)

ΕU

Trade name: ortho-xylene

· Eye/face protection

Tightly sealed goggles

· Body protection: Solvent resistant protective clothing

Physical and chemical properties	
Information on basic physical and chemical prop	erties
General Information	
Colour:	Colourless
Odour:	Aromatic
Odour threshold:	Not determined.
Melting point/freezing point:	-25.2 °C
Boiling point or initial boiling point and boiling	
range	144.4 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	1.7 Vol %
Upper:	7.6 Vol %
Flash point:	23 °C
Ignition temperature:	465 °C
Decomposition temperature:	Not determined.
рН	Not determined.
Viscosity:	
Kinematic viscosity at 40 °C	< 0.75 mm2/s (DIN 53211/4)
Dynamic at 25 °C:	0.87 mPas
Solubility	
water at 20 °C:	0.2 g/l
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	13 hPa
Density and/or relative density	
Density at 15 °C:	$0.883-0.885 \text{ g/cm}^3$
Relative density	Not determined.
Vapour density	Not determined.
Other information	
Appearance:	
Form:	Fluid
Important information on protection of health an	d
environment, and on safety.	
Auto-ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation of
~ · · ·	explosive air/vapour mixtures are possible.
Change in condition	1
Evaporation rate	Not determined.
Information with regard to physical hazard classe	'S
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	
Flammable liquid and vapour.	
Flammable solids	Void

Printing date 18.01.2023

Version number 1

Revision: 18.01.2023

Trade name: ortho-xylene

		(Contd. of page 5)
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flamm	able	
gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Reacts with strong oxidising agents.
- · Conditions to avoid
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.
- · Incompatible materials: Strong oxidizing agents
- · Hazardous decomposition products:

Reasonably to be expected, dangerous decomposition products, which are formed during use, storage, spillage and heating, are not known.

11 Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity

Harmful in contact with skin or if inhaled.

· LD/LC50 values relevant for classification:

Dermal LD50 1.100 mg/kg (ATE)

Inhalative LC50/4h 2-20 mg/l (rat)

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- · STOT-single exposure
- May cause respiratory irritation.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard
- May be fatal if swallowed and enters airways.
- Additional toxicological information:

The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.

(Contd. on page 7)

EU

Printing date 18.01.2023

Version number 1

Revision: 18.01.2023

(Contd. of page 6)

Trade name: ortho-xylene

· Information on other hazards

· Endocrine disrupting properties Substance is not listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity:
- LC50/96h: 2.6 mg/l (rainbow trout (Oncorhynchus mykiss)) ErC50/72h: 4.7 mg/l algae (Pseudokirchneriella subcapitata)) EC50/72h: 4.9 mg/l algae (Pseudokirchneriella subcapita))
- **Persistence and degradability** Easily biodegradable
- · Bioaccumulative potential Keine wesentliche Bioakkumulation
- *Mobility in soil* No further relevant information available.
- · Results of PBT and vPvB assessment
- *PBT*: This substance is not considered to be persistent, bioaccumulating nor toxic (*PBT*).
- vPvB: This substance is not considered to be very persistent nor very bioaccumulative (vPvB).
- Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- Other adverse effects
- Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- Waste treatment methods
- · Recommendation Disposal according to local regulations.
- · Uncleaned packaging:
- *Recommendation:* Disposal must be made according to official regulations.

UN number or ID number		
ADR, IMDG, IATA	UN1307	
UN proper shipping name		
ADR	1307 XYLENES	
IMDG, IATA	XYLENES	
Class	3 (F1) Flammable liquids.	
Label	3	

Printing date 18.01.2023

Version number 1

Revision: 18.01.2023

Trade name: ortho-xylene

	(Contd. of page
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
Packing group	
ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	
EMS Number:	F-E,S-D
Stowage Category	A
Maritime transport in bulk according to IMO	
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities ($\widetilde{E}Q$)	Code: E2
·	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1307 XYLENES, 3, III

15 Regulatory information

- · Directive 2004/42/EC
- · Directive 2012/18/EU
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II Substance is not listed.
- REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- Substance is not listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.

• Chemical safety assessment: A Chemical Safety Assessment has been carried out.

(Contd. on page 9)

EU

Printing date 18.01.2023

Version number 1

Revision: 18.01.2023

Trade name: ortho-xylene

(Contd. of page 8)

Department issuing SDS: Product safety department	
Contact: Mrs. Steyer	
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuse International Transport of Dangerous Goods by Rail)	es par chemin de fer (Regulations Concerning
CAO: International Civil Aviation Organisation	
ADR: Accord relatif au transport international des marchandises dangereuses p	ar route (European Agreement Concerning
International Carriage of Dangerous Goods by Road) MDG: International Maritime Code for Dangerous Goods	
ATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
DNEL: Derived No-Effect Level (REACH)	
PNEC: Predicted No-Effect Concentration (REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
PvB: very Persistent and very Bioaccumulative	
Flam. Liq. 3: Flammable liquids – Category 3	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Ann. Tox. 1: Assignation bazard – Category 1	
Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard	Catagory 3