

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product	Xylene
Use	Industrial Use Only
Supplier	Masimo Chemicals South Africa (Pty) Ltd G9 Arbour Grove Office Park 10 Oppenheimer Road Amazimtoti, Durban, 4120
Emergency Telephone South Africa	+27 (0) 82 430 9754 +27 (0) 83 638 0165

2. HAZARD IDENTIFICATION

EC Classification	R10: Flammable R20/21: Harmful by inhalation and in contact with skin. R38: Irritating to skin. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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Harmful.

Hazards:

Flammable. Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces.

Harmful by inhalation and in contact with skin. Can be absorbed through skin. Irritating to skin. May cause eye irritation. May cause irritation to the respiratory system.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT(S)

Chemical Name	CAS No.	EC No.	%W/W	Hazard Symbol	Risk Phrases
Xylene (mixture of isomers)	1330-20-7	215-535-7	60 - 95	Xn	R10, R20/21, R38
Ethylbenzene	100-41-4	202-849-4	2 – 35	F, Xn	R11, R20
Hexane, branched and linear	92112-69-1	295-570-2	1 – 4	F, Xn, N	R11, R38, R48/20, R62 R65, R67, R51/53

4. FIRST-AID MEASURES

- Ingestion : Do not induce vomiting. Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain immediate medical attention. Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.
- Inhalation : Remove patient from exposure, keep warm and at rest. If breathing is labored, oxygen should be administered by qualified personnel. Obtain immediate medical attention.
- Skin Contact : Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water. Obtain medical attention. Contaminated clothing should be thoroughly cleaned.
- Eye Contact : Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

General	:	Flammable. Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces. Keep fire exposed containers cool by spraying with water. Sealed containers may rupture explosively if hot. If possible prevent water running into sewers.
		Flash Point (°C): 26.6 (80°F)
		Auto Ignition Temperature (°C): 465.5-526.6 (870-980 oF)
		Flammable Limits (Lower) (%v/v): 1
		Flammable Limits (Upper) (%v/v): 7
Extinguishing Media	:	Foam, CO2 or dry powder.
Fire Fighting Protective Equipment	:	A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.
Other	:	Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide and various hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

Eliminate sources of ignition. Take precautionary measures against static discharges. Ensure adequate earthing. Ensure adequate ventilation. The vapour is heavier than air; beware of pits and confined spaces. Do not allow to enter drains, sewers or watercourses.

Personal Protection	:	Avoid contact with skin and eyes. Wear suitable protective clothing. (See Section: 8). Contaminated clothing should be thoroughly cleaned.
Methods for Cleaning up:	:	Absorb spillages onto sand, earth or any suitable adsorbent material. Sweep up carefully with non-sparking tools. Contaminated adsorbent must be removed in sealed, plastic lined drums and disposed of via an authorized waste disposal contractor. Wash spill area with soapy water. Contaminated clothing should be thoroughly cleaned.

7. HANDLING AND STORAGE

- Handling : Eliminate sources of ignition. Take precautionary measures against static discharges. Ensure adequate earthing. Use non-sparking hand tools and explosion proof electrical equipment. Provide adequate ventilation. Avoid contact with skin and eyes. Wear suitable protective clothing. (See Section: 8).
Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the workplace.
- Process Hazards. : Flammable. Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces.
- Storage : Keep containers tightly closed and in a well-ventilated place. Keep containers in a clean, cool and dry area away from heat sources. Keep away from sources of ignition – No smoking. Use only approved/ suitable container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- General : Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded.



- Respirators : Wear suitable respirator protective equipment if exposure to levels above the occupational exposure limit is likely.



Eye Protection : Goggles giving complete protection to eyes.



Gloves : Protective gloves. (EN 374)
Other : Apron or other light protective clothing, plastic or rubber gloves and antistatic boots. Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures.

Environmental Exposure Controls: Avoid release to the environment.

Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note:
Xylene, o-,m-,p- or mixture of isomers	1330-20-7	50	220	100	441	Sk, BMGV (EH40)
Ethylbenzene	100-41-4	100	441	125	552	Sk (EH40)
n-Hexane	110-54-3	20	72	-	-	(EH40)

Sk: Can be absorbed through skin.

Bmgv: Biological monitoring guidance value (UK HSE EH40)

Xylene: BMGV = 650 mmol methyl hippuric acid/mol creatine in urine (post shift).

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	:	Liquid.
Colour	:	Colourless
Odour	:	Sweet. Aromatic.
Boiling Point (°C)	:	137.7 (280 °F)
Vapour Pressure (Pascal)	:	0.4 (@ 37.7 °C, 100 °F)
Specific Gravity	:	0.88 (@ 16°C/ 60 °F)
Flash Point (°C)	:	26.6 (80°C)
Flammable Limits (Upper) (%v/v)	:	7
Flammable Limits (Lower) (%v/v)	:	1
Auto Ignition Temperature (°C)	:	465.5-526.6 (870-980°F)
Vapour Density (Air=1)	:	3.7
Solubility (Water)	:	Immiscible.

10 STABILITY AND REACTIVITY

Stable under normal conditions.

Incompatible materials and conditions	:	Heat Oxidizing agents. Acides Alkalis.
Hazardous Decomposition Product(s)	:	Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide and various hydrocarbons.



11. TOXICOLOGICAL INFORMATION

Inhalation	:	Harmful by inhalation. May cause irritation to the respiratory system. Dizziness. Drowsiness. Headache. Nausea. Fatigue.
Ingestion	:	Ingestion may cause irritation of the gastrointestinal tract. Aspiration into the lungs may cause chemical pneumonitis, which can be fatal. Nausea. Vomiting. Diarrhoea. Xylene : LD50 (oral/rat): 4300 mg/kg
Skin Contact	:	Harmful in contact with skin. Can be absorbed through skin. Irritating to skin.
Eye Contact	:	May cause eye irritation.

12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

13. DISPOSAL CONSIDERATIONS

Do not empty into drains; dispose of this material and its container in safe way. To be disposed of as hazardous waste. Contaminated adsorbent must be removed in sealed, plastic lined drums and disposed of via an authorized waste disposal contractor. Containers must be decontaminated in accordance with all applicable regulations. Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Classification:



UN No. : 1307
Class : 3
UN Packing Group : LII
Proper Shipping Name : XYLENES
Road/Rail
ADR/RID Class : 3
HAZARDS IDENTIFICATION ADR/RID : 30
SEA
Primary Class : 3
UN Packing Group Sea : LII
IMDG EMS : F-E, S-D
AIR
ICAO/IATA:
Primary Class : 3
UN Packing Group Air : III

15. REGULATORY INFORMATION

European Regulations



Harmful

Hazard Symbol:

Xn

Risk Phrases : R10: Flammable
R20/21: Harmful by inhalation and in contact with skin.
R38: Irritating to skin.

Safety Phrases : S2: Keep out of the reach of children.
S25: Avoid contact with eyes.
R36/37: Wear suitable protective clothing and gloves.
S42: In case of fire, use: Foam, CO2 or dry powder.
S60: This material and its container must be dispersed of as hazardous waste.

16. OTHER INFORMATION

Use : Industrial use only.

Risk Phrases:

R10: Flammable.
R11: Highly flammable.
R20: Harmful by inhalation.
R20/21: Harmful by inhalation and in contact with skin.
R38: Irritating to skin.
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.



Masimo Chemicals South Africa (Pty) Ltd

Safety Data Sheet

Xylene

R62: Possible risk of impaired fertility.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapours may cause drowsiness and dizziness.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Warranty/Disclaimer

The information and recommendation contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations and orders. In particular, they are under an obligation to carry out a risk assessment for the particular workplaces and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 98/24.