



**LEONID CHEMICALS PVT. LTD.,
BANGALORE**

An ISO-9001:2008 Certified Company

Quality Assurance Department

(CODE) DOCUMENT : WI

(CODE) SECTION : WI/SM

(DATE) : 01.04.2013



Issue : 02

Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): XYLENE

1 | Page of 1

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Xylene

Catalog Numbers: X001, X003, X999

Synonyms: Dimethylbenzene

CAS-No. : 1330-20-7

Company Information:

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SECTION 2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Flammable liquids (Category 3)
Acute toxicity, Inhalation (Category 4)
Acute toxicity, Dermal (Category 4)
Skin irritation (Category 2)
Classification according to EU Directives 67/548/EEC or 1999/45/EC
Flammable. Harmful by inhalation and in contact with skin. Irritating to skin.
- 2.2 Label elements
Labelling according Regulation (EC) No 1272/2008 [CLP]
Signal word Warning
Hazard statement(s)
H226 Flammable liquid and vapour.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H332 Harmful if inhaled.
- Precautionary statement(s)
P280 Wear protective gloves/ protective clothing.
- Supplemental Hazard
Statements none



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Issue : 02

Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): XYLENE

2 | Page of 1

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)

R-phrase(s)

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

S-phrase(s)

S25 Avoid contact with eyes.

2.3 Other hazards - none

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : Xylene mixture of isomers
Formula : C₈H₁₀
Molecular Weight : 106,17 g/mol

Component	Concentration
Xylene	
CAS-No.	1330-20-7
EC-No.	215-535-7
Index-No.	601-022-00-9

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed



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Issue : 02

Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): XYLENE

3 | Page of 1

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- 4.2 Most important symptoms and effects, both acute and delayed**
Blurred vision, Incoordination., Headache, Nausea, Vomiting, Dizziness, Weakness, anemia, Prolonged or repeated exposure to skin causes defatting and dermatitis.
- 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
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture**
Carbon oxides
- 5.3 Advice for firefighters**
Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information**
Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- 6.2 Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- 6.3 Methods and materials for containment and cleaning up**
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
- 6.4 Reference to other sections**
For disposal see section 13.



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Issue : 02

Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): XYLENE

4 | Page of 1

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end uses

no data available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Immersion protection

Material : Fluorinated rubber
Minimum layer thickness : 0,7 mm
Break through time : > 480 min
Material tested : Vitoject

Splash protection



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Issue : 02

Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): XYLENE

5 | Page of 1

Material : Nitrile rubber
Minimum layer thickness : 0,4 mm
Break through time : > 30 min
Material tested : Camatril
test method : EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point/Range : 136 - 140°C / 276.8 - 284°F
Melting Point/Range : -34°C / -29.2°F
Flash Point : 23 - 30°C / 73 - 86°F
Autoignition Temperature : 460°C / 860°F
Explosion Limits
Lower : 1.1 vol%
Upper : 7 vol%
Water Solubility : <0.1 g/l water (20°C)
Specific Gravity : 0.865
Partition Coefficient (n-octanol/water) : 3.1
Molecular Formula : C8 H10
Molecular Weight : 106.17

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
no data available



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Issue : 02

Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): XYLENE

6 | Page of 1

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 4.300 mg/kg

Remarks: Liver:Other changes. Kidney, Ureter, Bladder:Other changes.

LC50 Inhalation - rat - 4 h - 5000 ppm

LD50 Dermal - rabbit - > 1.700 mg/kg

Skin corrosion/irritation

Skin - rabbit - Skin irritation - 24 h

Serious eye damage/eye irritation

Eyes - rabbit - Mild eye irritation

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Xylene)

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available



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Issue : 02

Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): XYLENE

7 | Page of 1

Potential health effects

Inhalation Harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin Harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure Blurred vision, Incoordination., Headache, Nausea, Vomiting, Dizziness, Weakness, anemia, Prolonged or repeated exposure to skin causes defatting and dermatitis.

Additional Information

RTECS: ZE2100000

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 - Morone saxatilis - 2 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 75,49 mg/l - 24 h

Toxicity to algae Growth inhibition EC50 - Pseudokirchneriella subcapitata - 72 mg/l - 14 d

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Toxic to aquatic life.

no data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.



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Issue : 02

Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): XYLENE

8 | Page of 1

Contaminated packaging
Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

- 14.1 UN number
ADR/RID: 1307 IMDG: 1307 IATA: 1307
- 14.2 UN proper shipping name
ADR/RID : XYLENES
IMDG : XYLENES
IATA : Xylenes
- 14.3 Transport hazard class(es)
ADR/RID: 3 IMDG: 3 IATA: 3
- 14.4 Packaging group
ADR/RID: III IMDG: III IATA: III
- 14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no
- 14.6 Special precautions for user
no data available

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available
- 15.2 Chemical Safety Assessment
no data available

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Leonid Chemicals Pvt. Ltd. be liable for any claims, losses, or damages of any



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Issue : 02

Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): XYLENE

9 | Page of 1

third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Leonid Chemicals Pvt. Ltd. has been advised of the possibility of such damages.



	LEONID CHEMICALS PVT. LTD., BANGALORE An ISO-9001:2008 Certified Company Quality Assurance Department	(CODE) DOCUMENT : R/QPM/8.2.4/06	
		(CODE) SECTION : X003	
Title: SPECIFICATION MANUAL - XYLENE SULPHUR FREE			Issue : 02 Rev.: 01 1 Page of 1

Specification manual - Xylene (Sulphur free)

C₈H₁₀
Product : Xylene (Sulphur free)
Description : Clear liquid
Cat No : X003
Cas No : 1330-20-7
Prepared Date : 03.06.2010
Approved Date : 03.06.2010



MW: 106.17

REVISION HISTORY			
Issue/Rev	Description of Change	Author	Effective Date
01/00	Initial Release	S. Paul Joshua	03.06.2010
02/00	Reviewed no changes	S. Paul Joshua	01.04.2011
02/01	Included "Description & NVM" in the Tests	S. Paul Joshua	23.09.2013
Next Review Due :	02.04.2015		
To be reviewed by :	Head-QC/QA		

Sl. No.	Tests	Specification	Protocol
		LR	
1	Description	Clear liquid	LCPL
2	Boiling range	137-142°C	2/3.1-03
3	Sulphur compounds	0.0003%	LCPL
4	NVM	0.002 %	2/3.1-01

Approved By: S. Paul Joshua, Head Quality Control and Quality Assurance

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	LEONID CHEMICALS PVT. LTD., BANGALORE An ISO-9001:2008 Certified Company Quality Assurance Department	(CODE) DOCUMENT : R/QPM/8.2.4/06	
		(CODE) SECTION : X001	
Title: SPECIFICATION MANUAL - XYLENE			1 Page of 1



Specification manual - Xylene

C₈H₁₀		MW: 106.17
Product	: Xylene	
Description	: A clear, colourless liquid consisting of the three isomeric xylenes and ethyl benzene	
Cat No	: X001	
Cas No	: 1330-20-7	
Prepared Date	: 10.01.2011	
Approved Date	: 10.01.2011	

REVISION HISTORY			
Issue/Rev	Description of Change	Author	Effective Date
01/00	Initial Release	S. Paul Joshua	10.01.2011
02/00	Reviewed no changes	S. Paul Joshua	NA
Next Review Due :	02.04.2015		
To be reviewed by :	Head-QC/QA		

Sl. No.	Tests	Specification
		AR
1	Solubility	Miscible with absolute industrial methylated spirit forming clear colourless solutions.
2	Boiling Range	138°C - 142°C
3	Density at 20°C	0.862 – 0.864 g/mL
4	Acidity	0.012 mL N/1 %
5	Alkalinity	0.012 mL N/1 %
6	NVM	0.002 %
7	Benzene and Toluene	0.5 %
8	Organic impurities	Passes

Approved By: S.Paul Joshua, Head Quality Control and Quality Assurance

 Chemlabs	LEONID CHEMICALS PVT. LTD., BANGALORE An ISO-9001:2008 Certified Company Quality Assurance Department	(CODE) DOCUMENT : R/QPM/8.2.4/06 (CODE) SECTION : X001	 Issue : 02 Rev.: 00
Title: SPECIFICATION MANUAL - XYLENE		2 Page of 1	

9	Sulphur Compounds (CS ₂)	0.0003 %
10	Thiophen Homologues (C ₄ H ₄ S)	0.0002 %
11	Water	0.03 %

Approved By: S.Paul Joshua, Head Quality Control and Quality Assurance