## 2,4-XYLIDINE EXTRA PURE MSDS



### CAS No: 95-68-1 MSDS

### MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product form	: Substance	
EC no	: 202-440-0	
CAS No	: 95-68-1	
Product code	: 06508	
Chemical structure	CH <sub>3</sub>	
Synonyms	: 1-Amino-2,4-dimethylbenzene / 4-Amino-m-xylene / 2,4-Dimethylaniline	
1.2. Relevant identified	l uses of the substance or mixture and uses advised against	
1.2.1. Relevant identified	d uses	
Use of the substance/mixture	e : Industrial. For professional use only.	
1.2.2.       Uses advised against         No additional information available		
	plier of the safety data sheet	
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com		
1.4. Emergency teleph		
Emergency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)	
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture		
Classification according to Regulation (EC) No. 1272/2008 [CLP]		
	H301	
Category 3 Acute toxicity (dermal), H Category 3	4311	
	1331	

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Category 3

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Specific target organ H373 toxicity — Repeated exposure, Category 2 Hazardous to the aquatic environment — Chronic Hazard, Category 2

Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

T; R23/24/25 N; R51/53 R33 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS06 GHS08 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	<ul> <li>H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure</li> <li>H411 - Toxic to aquatic life with long lasting effects</li> </ul>
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray</li> <li>P273 - Avoid release to the environment</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/</li> <li>P311 - Call a POISON CENTER/doctor/</li> </ul>

#### 2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1.	Substance	
Name		: 2,4-XYLIDINE Extra Pure
CAS N	0	: 95-68-1
EC no		: 202-440-0

Full text of R- and H-phrases: see section 16

#### 3.2. **Mixture**

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Obtain emergency medical attention.
4.2. Most important symptoms and effective	facto both couts and delayed
4.2. Most important symptoms and ef Symptoms/injuries	: There are potential chronic health effects to consider.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing
Symptoms/injunes after skin contact	significant health hazard. Toxic in contact with skin.
Symptoms/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate med	ical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective	equipment and emergency procedures
	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Stop release.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	ment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
6.4. Reference to other sections	
No additional information available	

SECTION 7: H	andling and storage	
7.1. Preca	utions for safe handling	
Precautions for	safe handling	: Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measu	ıres	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Condi	tions for safe storage, inclu	uding any incompatibilities
Storage condition	ons	: Store in a well-ventilated place. Keep container tightly closed. Store in original container. Keep container tightly closed.
7.3. Speci	fic end use(s)	
No additional in	formation available	
SECTION 8: Exposure controls/personal protection		
8.1. Contro	ol parameters	

No additional information available

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8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear fire/flame resistant/retardant clothing
Respiratory protection	: Wear respiratory protection
<b>SECTION 9: Physical and chemical prop</b>	erties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Molecular mass	: 121.18 g/mol
Colour	: Yellowish brown.
Odour	: amine like.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -14 °C
Freezing point	: No data available
Boiling point	: 218 °C
Flash point	: 98 °C
Auto-ignition temperature	: 460 °C
Decomposition temperature	: No data available

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Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: 4.18	
Relative density	: No data available	
Density Solubility	: 0.98 g/cm³ : Water: Soluble in water	
Log Pow	: 1.68	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: 0.011 - 0.07 vol %	
9.2. Other information No additional information available SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous read	ctions	
No additional information available		
10.4. Conditions to avoid		
Direct sunlight. Overheating. Open flame.		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
No additional information available		
SECTION 11: Toxicological information	on	

11.1.	Information on toxicological effects	
Acute to	xicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

and symptoms

Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.
Additional information	: There are potential chronic health effects to consider
Aspiration hazard	: Not classified
Potential adverse human health effects	: Toxic if swallowed. Toxic in contact with skin.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability	
2,4-XYLIDINE Extra Pure (95-68-1)	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3.	12.3. Bioaccumulative potential		
2,4-X	2,4-XYLIDINE Extra Pure (95-68-1)		
Log P	ow	1.68	

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to
Ecology - waste materials	: Hazardous waste due to toxicity.

In accordance with ADR / RID / IMDG / IATA / ADN

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Safety Data Sheet	
14.1. UN number	
UN-No. (ADR)	: 1711
UN-No. (IMDG)	: 1711
UN-No.(IATA)	: 1711
UN-No.(ADN)	: 1711
UN-No. (RID)	: 1711
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: XYLIDINES, LIQUID
Proper Shipping Name (IMDG)	: XYLIDINES, LIQUID
Proper Shipping Name (IATA)	: XYLIDINES, LIQUID
Proper Shipping Name (ADN)	: XYLIDINES, LIQUID
Proper Shipping Name (RID)	: XYLIDINES, LIQUID
Transport document description (ADR)	: UN 1711 XYLIDINES, LIQUID, 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1711 XYLIDINES, LIQUID, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1711 XYLIDINES, LIQUID, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1711 XYLIDINES, LIQUID, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1711 XYLIDINES, LIQUID, 6.1, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 6.1
Danger labels (ADR)	: 6.1
IMDG	
Transport hazard class(es) (IMDG)	: 6.1
Danger labels (IMDG)	: 6.1



Transport hazard class(es) (IATA) Hazard labels (IATA)



: 6.1



### ADN

Transport hazard class(es) (ADN)	:	6.1
Danger labels (ADN)	:	6.1



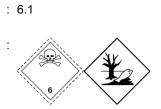
### RID

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Transport hazard class(es) (RID) Danger labels (RID)



: 6.1

14.4. Packing group		
Packing group (ADR)	: 11	
Packing group (IMDG)	: 11	
Packing group (IATA)	: 11	
Packing group (ADN)	: 11	
Packing group (RID)	: 11	
14.5. Environmental hazards		
Dangerous for the environment	: Yes	
Marine pollutant	: Yes	

llutant	: Yes
llutant	: Yes

Other information	: No supplementary information available
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14.6. Special precautions for user			
- Overland transport			
Classification code (ADR) : T1			
Limited quantities (ADR)	: 100ml		
Excepted quantities (ADR)	: E4		
Packing instructions (ADR)	: P001, IBC02		
Mixed packing provisions (ADR)	: MP15		
Portable tank and bulk container instructions (ADR)	: <b>T7</b>		
Portable tank and bulk container special provisions (ADR)	: TP2		
Tank code (ADR)	: L4BH		
Tank special provisions (ADR)	: TU15, TE19		
Vehicle for tank carriage	: AT		
Transport category (ADR)	: 2		
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28		
Special provisions for carriage - Operation (ADR)	: S9, S19		
Hazard identification number (Kemler No.)	: 60		
Orange plates	60		
	1711		
Tunnel restriction code (ADR)	: D/E		
EAC code	: 2X		

- Transport by sea	
Limited quantities (IMDG)	: 100 ml
Excepted quantities (IMDG)	: E4
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T <b>7</b>
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
MFAG-No	: 153
- Air transport	
PCA Excepted quantities (IATA)	: E4
PCA Limited quantities (IATA)	: Y641
PCA limited quantity max net quantity	: 1L
(IATA)	<b></b>
PCA packing instructions (IATA)	: 654
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 662
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 6L
- Inland waterway transport	
Classification code (ADN)	: T1
Special provisions (ADN)	: 802
Limited quantities (ADN)	: 100 ml
Excepted quantities (ADN)	: E4
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 2
Number of blue correshights (ADN)	. 2
- Rail transport	
Classification code (RID)	: T1
Limited quantities (RID)	: 100ml
Excepted quantities (RID)	: E4
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP2
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Loading	
and unloading (RID)	. 50015, 50020, 50051
Colis express (express parcels) (RID)	: CE5
Hazard identification number (RID)	: 60

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

2,4-XYLIDINE Extra Pure is not on the REACH Candidate List

2,4-XYLIDINE Extra Pure is not on the REACH Annex XIV List

#### 15.1.2. National regulations

<b>Germany</b> AwSV/VwVwS Annex reference 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	<ul> <li>Water hazard class (WGK) 3, strongly hazardous to water (KBwS-Beschluss; WGK No 7857)</li> <li>Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)</li> </ul>
Denmark	
Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

#### 15.2. Chemical safety assessment

No additional information available

#### **SECTION 16: Other information**

### Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H373	May cause damage to organs through prolonged or repeated exposure

H411	Toxic to aquatic life with long lasting effects
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R33	Danger of cumulative effects
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Ν	Dangerous for the environment
Т	Toxic

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product