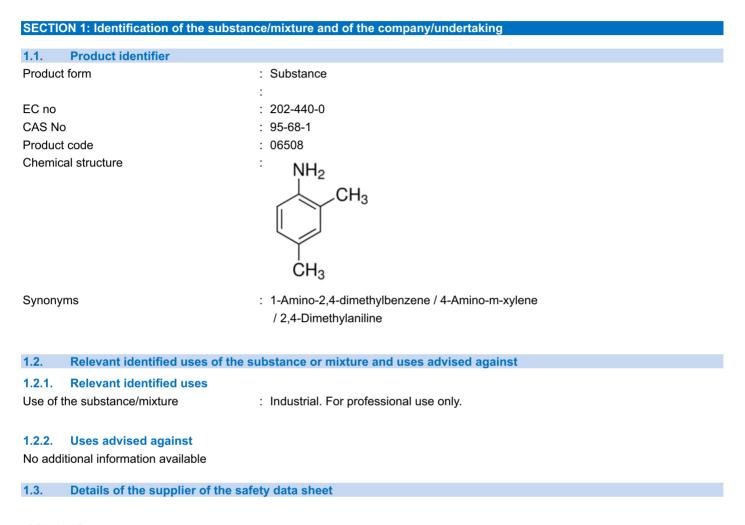
2,4-XYLIDINE EXTRA PURE MSDS

CAS No: 95-68-1 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)



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SECTION 2: Hazards identification

2.1. Classification o	f the substance or mixture
Classification according	to Regulation (EC) No. 1272/2008 [CLP]
Acute toxicity (oral), Category 3	H301
Acute toxicity (dermal), Category 3	H311
Acute toxicity (inhal.), Category 3	H331

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Specific target organ H373 toxicity — Repeated exposure, Category 2 Hazardous to the aquatic H411 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) : H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H373 - May cause damage to organs through prolonged or repeated exposure H411 - Toxic to aquatic life with long lasting effects : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray Precautionary statements (CLP) P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/... P311 - Call a POISON CENTER/doctor/...

2.3. Other hazards

No additional information available

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

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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 e	ffects, both acute and delayed
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 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	
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	

SECTI	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Precau	tions for safe handling	:	Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.
Hygien	e measures	:	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.	Conditions for safe storage, inc	lud	ing any incompatibilities
Storag	e conditions	:	Store in a well-ventilated place. Keep container tightly closed. Store in original container. Keep container tightly closed.
7.3.	Specific end use(s)		
No add	litional information available		
SECTI	ON 8: Exposure controls/personal	l pr	otection
8.1.	Control parameters		

No additional information available

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
SECTION 9: Physical and chemical prop	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 %
SECTION 10: Stability and reactivity 10.1. Reactivity	
10.1. Reactivity	
No additional information available	
10.2.Chemical stabilityStable under normal conditions.	
10.3. Possibility of hazardous rea No additional information available	ctions
10.4. Conditions to avoid	
Direct sunlight. Overheating. Open flan	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition p	products
No additional information available	
SECTION 11: Toxicological informati	ion
11.1. Information on toxicologica	l effects
A 1 1 1 1	

Acute toxicity

: 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

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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 and symptoms	: Toxic if swallowed. Toxic in contact with skin.
SECTION 12: Ecological information	

SECHO	in 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. Bioaccumulative potential	
2,4-XYLIDINE Extra Pure (95-68-1)	
Log Pow	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

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
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 6.1
Hazard labels (IATA)	: 6.1

ADN

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

: 6.1 : 6.1



RID

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



: 6.1

: 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	· Vee

Marine pollutant	: Yes
Other information	: No supplementary information available

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)	: T7
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)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: 3-A : A
MFAG-No	
MFAG-NO	: 153
- Air transport	
PCA Excepted quantities (IATA)	: E4
PCA Limited quantities (IATA)	: Y641
PCA limited quantity max net quantity	: 1L
(IATA)	
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
- 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)	: T 7
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)	. 01110, 01120, 01101
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

Germany AwSV/VwVwS Annex reference 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	 Water hazard class (WGK) 3, strongly hazardous to water (KBwS-Beschluss; WGK No 7857) Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
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

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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	Тохіс

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