



Alpha Chemika



ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION

MATERIAL SAFETY DATA SHEET

MSDS

Savgan Heights ; 102 ,B Wing ; R.T.O. Lane ,Andheri (West) Mumbai - 400053 , INDIA

Section 1 - Chemical Product and Company Identification

Product Name : 2,6-XYLIDINE (purified)

Synonyms: 2,6-dimethylaniline, 2-Amino-m-xylene, 2-Amino-1,3-dimethylbenzene

CAS No.: 87-62-7

Molecular Weight: 121.18

Chemical Formula: C₈H₁₁N

Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
2,6-Xylidine	87-62-7	98- 100%	Yes

Section 3 - Hazardous Identification

Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Carcinogenicity (Category 2)

Acute toxicity (Category 4)

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Specific target organ toxicity - single exposure (Category 3)

Skin irritation (Category 2)

Chronic aquatic toxicity (Category 2)

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

Limited evidence of a carcinogenic effect. Harmful by inhalation, in contact with skin and if swallowed.

Irritating to respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 4 - 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

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 - Fire Fighting Measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 - Accidental Release Measures

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

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.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

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.

Conditions for safe storage

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.

Section 8 - Exposure Controls, Personal Protection

Personal protective equipment

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).

Hand protection

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

Handle with gloves.

Eye protection

Face shield and safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

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

Section 9 - Physical and Chemical Properties

Appearance

Form liquid

Colour light yellow

Safety data

pH 12,5 at 100 g/l at 20 °C

Melting point 10 - 12 °C - lit.

Boiling point 214 °C at 985 hPa - lit.

Flash point 91 °C - closed cup

Ignition temperature 490 °C

Lower explosion limit 1,3 %(V)

Upper explosion limit 6,9 %(V)

Vapour pressure 0,20 hPa at 20 °C

Density 0,984 g/mL at 25 °C

Water solubility no data available

Partition coefficient:

n-octanol/water

log Pow: 1,96

Section 10 - Stability and Reactivity

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

no data available

Materials to avoid

acids, Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Halogens

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Section 11 - Toxicological Information

Acute toxicity

LD50 Oral - rat - 840 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Cyanosis Blood:Changes in spleen.

Skin corrosion/irritation

Skin - rabbit - No skin irritation

Serious eye damage/eye irritation

Eyes - rabbit - No eye irritation

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

Genotoxicity in vitro - Hamster - ovary

Sister chromatid exchange

Genotoxicity in vitro - Hamster - ovary

Cytogenetic analysis

Carcinogenicity

Carcinogenicity - rat - Oral

Tumorigenic: Carcinogenic by RTECS criteria. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Olfaction: Tumors. Endocrine: Tumors.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans (2,6-Xylidine)

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

May cause damage to organs.

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation Harmful if inhaled. Causes respiratory tract irritation.

Ingestion Harmful if swallowed.

Skin Harmful if absorbed through skin. Causes skin irritation.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Damage to the eyes., Nausea, Dizziness, Headache, Blood disorders

Additional Information

RTECS: ZE9275000

Section 12 - Ecological Information

Toxicity

Toxicity to fish LC50 - Danio rerio (zebra fish) - 143,3 mg/l - 96,0 h

Persistence and degradability**Bioaccumulative potential**

Bioaccumulation Cyprinodontidae - 48 h

Bioconcentration factor (BCF): 2,8

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

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

Section 13 - Disposal Considerations

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

Section 14 - Transport Information

ADR/RID

UN-Number: 1711 Class: 6.1 Packing group: II

Proper shipping name: XYLIDINES, LIQUID

IMDG

UN-Number: 1711 Class: 6.1 Packing group: II EMS-No: F-A, S-A

Proper shipping name: XYLIDINES, LIQUID

Marine pollutant: No

IATA

UN-Number: 1711 Class: 6.1 Packing group: II

Proper shipping name: Xylidines, liquid

Section 15 - Regulatory Information

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

Section 16 - Additional Information

Text of H-code(s) and R-phrase(s) mentioned in Section 3

Acute Tox. Acute toxicity

Aquatic Chronic Chronic aquatic toxicity

Carc. Carcinogenicity

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. Skin irritation

STOT SE Specific target organ toxicity - single exposure

N Dangerous for the environment

Xn Harmful

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R37/38 Irritating to respiratory system and skin.

R40 Limited evidence of a carcinogenic effect.

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