



CHEMSYNTH CORPORATION

(Exporter of chemical Raw materials)

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Material Safety Data Sheet

1 Product And Company Identification

: Product Name : 2,4 Xylidine Other/Generic Names : 2,4-Dimethylaniline 2,4-Dimethylbenzeneamine 1-Amino-2,4-dimethylbenzene 4-Amino-1,3-dimethylbenzene 4-Amino-m-xylene 4-Amino-1,3-xylene CAS No. : 95-68-1 Product use : Used as an epoxy curing agent, a corrosion inhibitor and molded plastics, and as an intermediate to prepare organic compounds used for polyurethane, spandex fibers, azo dyes, isocyanates and poly(amide-imide) resins, rubber chemicals (vulcanization accelerators and antioxidants), and pigments.

2 Hazard Identification :

GHS classification (Classification according to Regulation (EC) No 1272/2008) Hazard statement (s) Health Hazards 4 Physical Hazards 0 H301 Harmful if swallowed H331 Toxic if inhaled. H311 Toxic in contact with skin. H373 May cause damage to organs through prolonged or repeated exposure

3 Composition / Information On Ingredients

: Chemical formula : C₈H₁₁N Common Name : 2,4-Xylidine Synonyms : 2,4-Dimethylaniline 2,4-Dimethylbenzeneamine 1-Amino-2,4-dimethylbenzene 4-Amino-1,3-dimethylbenzene 4-Amino-m-

xylene 4-Amino-1,3-xylene Molecular weight : 121.18 g/mol CAS No. : 95-68-1 Index No. : 612-027-00-0
UN No. : 1711 EINECS No. : 202-440-0

4 First Aid Measures :

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. 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. Take victim immediately to hospital. 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.

5 Fire Fighting Measures:

Flammable properties Flash point 98 °C (208 °F) - closed cup Ignition temperature 460 °C (860 °F)
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.

6 Accidental Release Measures :

Personal precautions Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. 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 for cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7 Handling & Storage :

Handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection. Storage 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.

8 Exposure Control / Personal Protection :

Contains no substances with occupational exposure limit values. Personal protective equipment
Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose 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 Handle with gloves. Eye protection 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 Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9 Physical And Chemical Properties :

Appearance : Clear, liquid Colour : colourless Odour : Characteristic aromatic odour pH (1% Solution) : No data available Boiling Point/range : 218 °C (424 °F) - lit. Melting point : -14.3 °C (6.3 °F) - lit. Flash Point : 98 °C (208 °F) - closed cup Autoignition temperature : 460 °C (860 °F) Lower explosion limit : 1.1 %(V) Upper explosion limit : 7 %(V) Vapour Pressure : 0.51 hPa (0.38 mmHg) at 38 °C (100 °F) 0.21 hPa (0.16 mmHg) at 25 °C (77 °F) Density : 0.98 g/mL at 25 °C (77 °F) Solubility water : 3.4 g/litre at 20 °C, 51 g/litre at 60 °C. Relative vapour density : 4.18 - (Air = 1.0)

10 Stability And Reactivity :

Storage stability Stable under recommended storage conditions. 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)

11 Toxicological Information :

Acute toxicity : LD50 Oral - rat - 467 mg/kg RTECS# : ZE8925000 Carcinogenicity : This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. Health Warnings : Inhalation Toxic if inhaled. May cause respiratory tract irritation. Skin Toxic if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Ingestion Harmful if swallowed. Target organs : Eyes, blood Chronic exposure : IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2,4-Xylidine) ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

12 Ecological Information :

Acute fish toxicity Acute toxicity to aquatic invertebrates : : LC0 - Leuciscus idus melanotus - 98 mg/l - 48 h LC50 - Leuciscus idus melanotus - 196 mg/l - 48 h EC50 - Daphnia magna (Water flea) - 9.9 mg/l - 48 h. Further information on ecology An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13 Disposal Considerations :

Product Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging Dispose of as unused product.

14 Transport Information :

UN No. : 1711 Hazard Class : 6.1 Packing Group : II DOT (US) UN-Number: 1711 Class : 6.1 Packing group: II Proper shipping name : Xylidines, liquid Marine pollutant : Yes Poison Inhalation Hazard : No IMDG UN-Number: 1711 Class: 6.1 Packing group: II EMS-No: F-A, S-A Proper shipping name: XYLIDINES, LIQUID Marine pollutant: Yes IATA UN-Number: 1711 Class: 6.1 Packing group: II Proper shipping name: Xylidines, liquid

15 Regulatory Information :

Safety Information according to GHS Hazard Statement (s) H301 Harmful if swallowed H331 Toxic if inhaled. H311 Toxic in contact with skin. H373 May cause damage to organs through prolonged or repeated exposure . H411 Toxic to aquatic life with long lasting effects.

16 Other Information: -

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