

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

*MSDS Name:* 2,4,6-Trimethylaniline  
*Synonyms:* 2-Aminomesitylene  
*Company Identification:* PI Chemicals Ltd.  
Building B, 633 E Shan Road, Pudong New Area  
Shanghai 200127, China  
*Telephone Number:* 86-21-58953700  
*Fax Number:* 86-21-58953701

### Section 2 - Product Information

*Catalog Number:* PI-34167  
*CAS Number:* 88-05-1  
*MDL Number:* MFCD00007740  
*EC Number:* 201-794-3  
*Purity:* 99.0%

### Section 3 - Physical and Chemical Properties

*Physical state:* Oily liquid  
*Color:* Light yellow  
*Odor:* Undetermined  
*Molecular Formula:* C<sub>9</sub>H<sub>13</sub>N  
*Molecular Weight:* 135.21  
*Freezing/Melting Point:* -5°C  
*Boiling Point:* 233 °C(lit.)  
*Flash Point:* 96 °C/204.8 °F  
*Autoignition Temperature:* Undetermined  
*Refractive Index (n<sub>D</sub>20):* Undetermined  
*Density:* 0.963 g/mL at 25 °C(lit.)  
*Decomposition Temperature:* Undetermined  
*Solubility:* Undetermined

### Section 4 - Hazards Identification

*Signal word:* Danger  
*Eye:* Causes eye irritation.  
*Skin:* Causes skin irritation. Harmful if absorbed through the skin.

*Ingestion:* May cause irritation of the digestive tract. Toxic if swallowed.  
*Inhalation:* May be harmful if inhaled. Cause respiratory tract irritation.

### ***Section 5 - First Aid Measures***

*Eye:* Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
*Skin:* Get medical aid. Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.  
*Ingestion:* Get medical aid immediately. Wash mouth out with water.  
*Inhalation:* Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

### ***Section 6 - Stability and Reactivity***

*Chemical Stability:* Stable under recommended storage conditions.  
*Materials to avoid:* Strong oxidizing agents  
*Conditions to Avoid:* Has not been reported.  
*Hazardous Decomposition Products:* Carbon oxides, nitrogen oxides (NO<sub>x</sub>)  
*Hazardous Polymerization:* Has not been reported.

### ***Section 7 - Handling and Storage***

*Handling:* Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required. Keep away from sources of ignition - No smoking.  
*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.

### ***Section 8 - Personal Protection***

*Eyes:* Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.  
*Skin:* Wear appropriate protective gloves to prevent skin exposure.  
*Clothing:* Wear appropriate protective clothing to prevent skin exposure.  
*Respirators:* Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### ***Section 9 - Fire and Explosion Hazard Data***

*General Information:* As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and protective clothing to prevent contact with skin

and eyes.

*Extinguishing Media:* Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **Section 10 - Accidental Release Measures**

*General Information:* Use proper personal protective equipment as indicated in Section 8.

*Spills/Leaks:* Vacuum or sweep up material and place into a suitable disposal container.

### **Section 11 - Toxicological Information**

*RTECS#:* CAS# 88-05-1: BZ0700000

*LD50/LC50:* LD50 Oral - rat - 743 mg/kg

LC50 Inhalation - mouse - 2 h - 290 mg/m<sup>3</sup>

*Carcinogenicity:* 2,4,6-Trimethylaniline - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

### **Section 12 - Environmental information**

Not available

### **Section 13 - Disposal Consideration**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

### **Section 14 - Transport Information**

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<i>Shipping Name:</i>	Toxic, liquids, organic, n.o.s. (2,4,6-Trimethylaniline)	Toxic, liquids, organic, n.o.s. (2,4,6-Trimethylaniline)	Toxic, liquids, organic, n.o.s. (2,4,6-Trimethylaniline)
<i>Hazard Class:</i>	6.1	6.1	6.1
<i>UN Number:</i>	2810	2810	2810
<i>Packing Group:</i>	II	II	II

### **Section 15 - Regulatory Information**

#### *European/International Regulations*

European Labeling in Accordance with EC Directives

Signal word: Danger

Hazard statement(s)

H302 + H312 Harmful if swallowed or in contact with skin

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

Risk Phrases:

R 21/22: Harmful in contact with skin and if swallowed

R 23: Toxic by inhalation

R 36/37/38: Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 28: After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer)

S 36/37: Wear suitable protective clothing and gloves

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

WGK (Water Danger/Protection)

CAS# 88-05-1: 3

Canada

CAS# 88-05-1: Not available

*US Federal*

*TSCA*

CAS# 88-05-1 is listed on the TSCA Inventory. It is for research and development use only.

### ***Section 16 - Additional Information***

*MSDS Creation Date:* Mar 15, 2008

*Update:* Oct 18, 2012

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