

Material Safety Data Sheet

p-Toluidine

1 Product And Company Identification :

Product Name : **p-Toluidine**

Other/Generic Names : 4-Aminotoluene,
4-Methylaniline

CAS No. : 106-49-0

Product use : It can be used to manufacture pigment, dyestuffs,
photographic chemicals, antioxidants, agricultural,
pharmaceutical and rubber chemicals.

Supplier : Contact no. : +91-9904406400
AGR ENTERPRISES
C 301, Angelina CHS, Sarojini Road, Vile Parle West
Mumbai- 400 056

2 Hazard Identification :

GHS classification (Classification according to Regulation (EC) No 1272/2008)

Health Hazards
Category 3, Inhalation
Category 3, Dermal
Carcinogenicity Category 2

Flammability:

Physical hazards:

Eye irritation, Category 2
Skin sensitization, Category 1

EC classification

(Classification according to Directive 67/548/EEC)

T: R23/24/25

Xi; R36

Carc.Cat.3; R40

R43

N : R50

Acute aquatic toxicity, Category 1

Hazard statement (s)

H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H331: Toxic if inhaled.
H351: Suspected of causing cancer.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H400: Very toxic to aquatic life.

Toxic by inhalation, in contact with skin and if
swallowed
Irritating to eyes.
Limited evidence of a carcinogenic effect.
May cause sensitization by skin contact.
Very toxic to aquatic organisms.

Hazard pictograms



Signal word

Warning

3 Composition / Information On Ingredients :

Chemical formula	: $\text{CH}_3\text{C}_6\text{H}_4\text{NH}_2$
Common Name	: p-Toluidine
Synonyms	: 4-Aminotoluene, 4-Methylaniline
Molecular weight	: 107.15 g/mol
CAS No.	: 106-49-0
Index No.	: 612-160-00-4
UN No.	: 3451
EINECS No.	: 203-403-1

4 First Aid Measures :

General advice

First aider needs to protect himself.

If inhaled

Fresh air. If breathing stops: immediately apply mechanical ventilation, if necessary oxygen mask. Immediately call in physician.

In case of skin contact

Wash off with plenty of water. Dab with polyethylene glycol 400. Immediately remove contaminated clothing. Call a physician immediately.

In case of eye contact

Rinse out with plenty of water. Call in ophthalmologist.

If swallowed

Give water to drink (two glasses at the most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible

5 Fire Fighting Measures:

Suitable extinguishing media

Water, Carbon dioxide (CO₂), Foam, Dry powder

Special protective equipment for fire-fighters

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Fire may cause evolution of: nitrogen oxides

Combustible material, Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental Release Measures :

Personal precautions

Avoid substance contact. Avoid inhalation of dusts in all circumstances.

Ensure adequate ventilation.

Environmental precautions

Do not empty into drains.

Methods and materials for containment and cleaning up

Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

7 Handling & Storage :

Handling

Advice on safe handling

Observe label precautions.

Work under hood. Do not inhale substance.

Storage

Further information on storage conditions

Protected from light. Dry. Tightly closed. Keep in a well-ventilated place.

Keep locked up or in an area accessible only to qualified or authorised persons.

Store at +15°C to +25°C.

8 Exposure Control / Personal Protection :

Personal protective equipment

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter A-(P3)

Hand protection

full contact:

Hand protection

Glove material: Nitrile rubber Glove thickness: 0,11 mm Break through time: > 480 min

Eye protection

Safety glasses

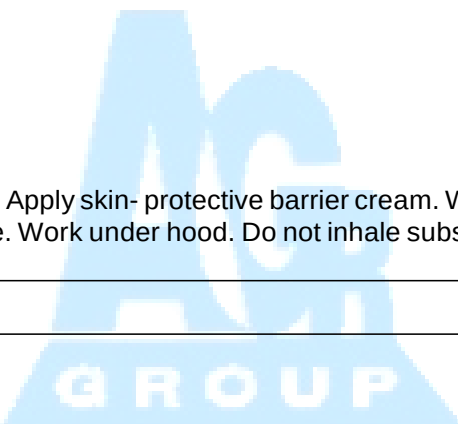
Protective suit

Protective measures

Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance. Work under hood. Do not inhale substance.

9 Physical And Chemical Properties :



Appearance	: solid
Colour	: white
Odour	: alcoholic
pH (1% Solution)	: (H2O, 20 °C) alkaline
Boiling Point/range	: 200 °C
Melting point	: 43 °C
Flash Point	: 87 °C
Autoignition temperature	: 480 °C
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour Pressure	: 1.3 hPa (50 °C)
Density	: 1.05 g/cm ³ (20 °C)
Solubility water	: 7.5 g/l (20 °C)
Relative vapour density	: 3.9

10 Stability And Reactivity :

Materials to avoid

Nitrosing agents, nitrous acid, nitrites

Condition to avoid

Strong heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Hazardous decomposition products

Fire may cause evolution of: nitrogen oxides

Combustible material, Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

Further information

Sensitivity to light Sensitive to air. Heat-sensitive Forms explosive mixtures with air on intense heating.

11 Toxicological Information :

Acute toxicity	: LD 50 oral LD50 rat 336 mg/kg LD 50 dermal LD50 rabbit 890 mg/kg
RTECS#	: XU3150000
Category of danger	: Toxic, irritant, carcinogenic, sensitizing, dangerous for the environment
Health Warnings	: Liver, Kidney Effect potentiated by: ethanol
Target organs	: Liver, Kidney
Potential health effects	Toxic by inhalation, in contact with skin and if swallowed Irritating to eyes.

12 Ecological Information :

Acute fish toxicity LC50	: Species: Brachydanio rerio (zebra fish) Dose: 137 mg/l Exposure time: 48 h Method: OECD Test Guideline 203
Acute toxicity to aquatic invertebrates EC50	: Species: Daphnia magna (Water flea) Dose: 0,12 mg/l Exposure time: 48 h (ECOTOX Database) Toxicity to bacteria MICROTOX-TEST EC50 Species: Photobacterium phosphoreum Dose: 4,27 mg/l Exposure time: 30 min (Lit.)
	WGK 2 water endangering

13 Disposal Considerations :

Product

Chemicals must be disposed of in compliance with the respective national regulations

Packaging

Product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

14 Transport Information :

UN No. : 3451

Hazard Class : 6.1

Packing Group : II

Declaration (railroad and road) ADR, RID

UN 3451 Toluidine, fest, 6.1, II

Declaration (transport by sea) IMDG-Code

UN 3451 TOLUIDINES, SOLID, 6.1, II

Declaration (transport by air) IATA-DGR

UN 3451 TOLUIDINES, SOLID, 6.1, II

15 Regulatory Information :

Safety Information according to GHS

Hazard Statement (s)

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Precautionary Statement (s)

P273: Avoid release to the environment.
P280: Wear protective gloves/ protective clothing.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Signal Word

Danger

Hazard Pictogram(s):



RTECS#

: XU3150000

Labeling according to EC directives

Hazard symbols	:	
Risk phrases	:	R 23/24/25-36-40-43-50 Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes .Limited evidence of a carcinogenic effect. May cause sensitization by skin contact. Very toxic to aquatic organisms.
Safety phrases	:	S 28-36/37-45-61 After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).Avoid release to the environment. Refer to special instructions/ Safety data sheets.

OSHA Hazards

Combustible Liquid

DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components 2-Ethylhexyl nitrate CAS-No.

27247-96-7 **New Jersey Right To Know**

Components

2-Ethylhexyl nitrate CAS-No. 27247-96-7

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

16 Other Information:

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DISCLAIMER : AGR Enterprises. provides the information contained herein in good faith but makes no representation as to comprehensiveness or accuracy. This document is only as a guide to a properly trained person, for the appropriate precautions and handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. The data does not signify any warranty with regard to the product's properties.