



SAFETY DATA SHEET

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Catalogue No : T32809

Product Name : p-Toluidine

Manufacutre / Supplier Identification Company : Nice Chemicals (P) Ltd., PB No: 2217, Manimala Road, Edappally, Kochi - 682 024, Kerala, India.

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2 COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms : 4-Aminotoluene
4-Methylaniline

CAS - No : 106-49-0

Molar Mass :

Molecular Weight : 123.22 g/mol

Molecular Formula : C₇H₉N

EC - INDEX No : 612-160-00-4

EC - No : 203-403-1

Hazardous ingredients according to Regulation (EC) No 1272/2008

Classification : Acute Tox. 3; Eye Irrit. 2; Skin
Sens. 1; Carc. 2; Aquatic
Acute 1; H319, H400, H301,
H311, H317, H331, H351

Concentration :

Hazardous ingredients according to Directive 1999/45/EC

Classification : T, N, Carc. Cat. 3, R23/24/25 -
R36 - R40 - R43 - R50

Concentration :

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3 HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

Carcinogenicity (Category 2), H351
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311
Acute toxicity, Oral (Category 3), H301
Eye irritation (Category 2), H319
Skin sensitisation (Category 1), H317
Acute aquatic toxicity (Category 1), H400
For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

T - Toxic - R40, R23/24/25
Xi Irritant R36, R43
N Dangerous for the environment - R50
For the full text of the R-phrases mentioned in this Section, see Section 16.

Label Elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word

Danger

Hazard statement(s)

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

Precautionary statement(s)

P261 : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273 : Avoid release to the environment.
P280 : Wear protective gloves/ protective clothing.
P301 + P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.



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P305 + P351 + P338	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P311	:	Call a POISON CENTER or doctor/ physician.
Supplemental Hazard Statements	:	none

4 FIRST AID MEASURES

General advice	:	Consult a physician. Show this safety data sheet to the doctor in attendance.
After Inhalation	:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact	:	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
After eye contact	:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
After swallowing	:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most Important symptoms and effects, both acute and delayed	:	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	:	no data available

5 FIRE - FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	:	Carbon oxides, nitrogen oxides (NOx)
Advice for firefighters	:	Wear self contained breathing apparatus for fire fighting if necessary.



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Further Information	:	No data available
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6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
Environmental-protection	:	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	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Precautions for safe handling	:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Conditions for safe storage, including any incompatibilities	:	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Specific end users	:	A part from the uses mentioned in section 1.2 no other specific uses are stipulated

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameter Exposure Controls	:	Complements with workplace control parameters
Appropriate engineering controls	:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
Personal protective equipment	:	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Eye/face protection	:	



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Skin Protection	:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Full Contacts		
Material	:	Nitrile rubber
Minimum layer thickness	:	0,11 mm
Break through time	:	> 480 min
Material tested	:	Nice chemicals
Splash protection		
Material	:	Nitrile rubber
Minimum layer thickness	:	0,11 mm
Break through time	:	> 30 min
Body Protection	:	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory Protection	:	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).
Control of environmental exposure	:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.



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9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Form : crystalline Colour : beige
Odour	:	No data available
Odour Threshold	:	No data available
pH	:	7,8 at 7 g/l
Melting Point/Freezing point	:	Melting point/range: 41 - 46 °C - lit.
Initial Boiling point and boiling range	:	200 °C - lit.
Flash Point	:	87 °C - closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper/lower flammability or explosive limits	:	Upper explosion limit: 6,6 %(V) Lower explosion limit: 1,1 %(V)
Vapour Pressure	:	7 hPa at 68 °C 1 hPa at 42 °C
Vapour Density	:	No data available
Relative density	:	0,973 g/mL at 25 °C
Water solubility	:	No data available
Partition coefficient: noctanol/water	:	log Pow: 3,1
Autoignition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Bulk density	:	No data available
Other Safety information	:	No data available



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10 STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	Stable under recommended storage conditions
Conditions to be avoided	:	No data available
Substance to be avoided	:	No data available
Hazardous decomposition products	:	No data available
Possibility of hazardous reactions	:	No data available
incompatible materials	:	acids, Acid chlorides, Acid anhydrides, Chloroformates, Strong oxidizing agents

11 TOXICOLOGICAL INFORMATION

Acute Toxicity	:	LD50 Oral - rat - 336 mg/kg Remarks: Peripheral Nerve and Sensation:Spastic paralysis with or without sensory change. Behavioral: Somnolence (general depressed activity). Behavioral:Convulsions or effect on seizure threshold. LC50 Inhalation - rat - 1 h - > 646 mg/m3 LD50 Dermal - rabbit - 890 mg/kg
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Further toxicological Information

Carcinogenicity	:	This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA lassification. Limited evidence of carcinogenicity in animal studies IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Skin corrosion/irritation	:	Skin - rabbit Result: Mild skin irritation - 24 h
Eye Irritation test (rabbit)	:	Moderate eye irritation - 24 h
Respiratory or skin Sensitization	:	No data available
Serious eye damage/eye irritation	:	No data available



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Germ cell mutagenicity	:	rat Liver Unscheduled DNA synthesis mouse DNA inhibition mouse DNA damage
After Inhalation	:	May be harmful if inhaled. Causes respiratory tract irritation.
After Skin contact	:	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	:	Causes eye irritation.
After swallowing	:	May be harmful if swallowed.
After swallowing of large amounts	:	No data available
Further data	:	No data available
Reproductive toxicity	:	No data available
Specific target organ toxicity-single exposure	:	No data available
Specific target organ toxicity-repeated exposure	:	No data available
Signs and symptoms of Exposure	:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information	:	RTECS : XU3150000

12 ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish	:	LC50 - Pimephales promelas (fathead minnow) - 13,5 - 16,3 mg/l - 96,0 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 - Daphnia magna (Water flea) - 0,10 - 0,16 mg/l - 48 h
Toxicity to algae	:	EC50 - Pseudokirchneriella subcapitata (green algae) - 0,2 mg/l - 14 d
Persistence and degradability	:	Biodegradability Biotic/Aerobic - Exposure time 8 d Zahn-Wellens Test



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Biodegradability	:	No data available
Bioaccumulative potential	:	No data available
Bioaccumulation	:	No data available
Mobility in soil	:	No data available
Results of PBT and vPvB assessment	:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	:	Very toxic to aquatic life.

13 DISPOSAL METHOD

Waste treatment methods

Product	:	Offer surplus and non-recyclable solutions to a licensed disposal company. 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 number	:	ADR/RID: -3451	IMDG: -3451	IATA: -3451
UN Proper shipping name	:	ADR/RID: TOLUIDINES, SOLID	IMDG: TOLUIDINES, SOLID	IATA: TOLUIDINES, SOLID
Transport hazard class(es)	:	ADR/RID: - 6.1	IMDG: - 6.1	IATA: - 6.1
Packaging group	:	ADR/RID: - II	IMDG: - II	IATA: - II
Environmental group	:	ADR/RID: - NO	IMDGMarine pollutant: No	IATA: -No
Special precaution for user	:	No data available		



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15 REGULATORY INFORMATION

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

Safety, health and environmental regulations/legislation specific for the substance or mixture	:	No data available
Chemical safety assessment	:	No data available

16 OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox	:	Acute toxicity
Aquatic Acute	:	Acute aquatic toxicity
Carc.	:	Carcinogenicity
Eye Irrit.	:	Eye irritation
H301	:	Toxic if swallowed.
H311	:	Toxic in contact with skin.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H331	:	Toxic if inhaled.
H351	:	Suspected of causing cancer.
H400	:	Very toxic to aquatic life.
Skin Sens.	:	Skin sensitisation

Full text of R-phrases referred to under sections 2 and 3

N	:	Dangerous for the environment
T	:	Toxic
R23/24/25	:	Toxic by inhalation, in contact with skin and if swallowed.
R36	:	Irritating to eyes.
R40	:	Limited evidence of a carcinogenic effect.
R43	:	May cause sensitisation by skin contact.
R50	:	Very toxic to aquatic organisms.

The information contained here in is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precaution. It does not represent a guarantee of the properties of the product.