

Deepak Nitrite Limited

Material Safety Data Sheet

p-Cumidine

1 Product And Company Identification :

Product Name	:	p-Cumidine
Other/Generic Names	:	4-Isopropylaniline 1-Amino-4-isopropylbenzene 4-Aminocumene 4-Aminoisopropylbenzene p-Cumidine p-Isopropylaniline
CAS No.	:	99-88-7
Product use	:	The p-cumidine is in the manufacture of Isoproturon (Herbicide) & intermediate for 2-Isopropyl thioxanthone (Type II photoinitiator)
Supplier		Deepak Nitrite Ltd. Aaditya-I, National Highway No. 8, Chhani Road, Vadodara - 390 024, India Manufacturing facilities at : Vadodara, Roha, Taloja & Hyderabad. Contact no. : +91-9904406400
For Chemical Emergency		Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887

2 Hazards Identification :

GHS classification (Classification according to Regulation (EC) No 1272/2008)	Hazard Statements
Health hazard: 2	H227 Combustible liquid
Flammability: 2	H315 Causes skin irritation.
Physical hazards: 0	H319 Causes serious eye irritation. H335 May cause respiratory irritation.
EC classification (Classification according to Directive 67/548/EEC)	
T : R 21/22-34	Harmful in contact with skin and if swallowed. Causes burns.
R36/37	Irritating to eyes. Irritating to respiratory system.
N : R/52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard pictograms



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Signal word

Warning/ Danger

3 Composition / Information On Ingredients :

Chemical Formula	: C ₉ H ₁₃ N
Common name	: p-Cumidine
Synonyms	: 4-Isopropylaniline
Molecular weight	: 135.21 g/mol
CAS No.	: 99-88-7
Index No.	: -
UN No.	: 2735
EINECS No.	: 202-797-2

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. 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:

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.

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6 Accidental Release Measures :

Personal precautions

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

Environmental precautions

Do not let product enter drains.

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.

7 Handling & 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

Keep container tightly closed in a dry and well-ventilated place.

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 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

Handle with gloves.

Eye protection

Safety glasses with side-shields conforming to EN166

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.

9 Physical And Chemical Properties :

Appearance	: clear, liquid
Colour	: dark red
Odour	: Aromatic Odour
pH	: 7 (2.2 g/l, H ₂ O, 20 °C)
Boiling Point/range	: 226 - 227 °C (439 - 441 °F) at 993 hPa (745 mmHg)
Melting point	: - 63 °C

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Flash Point	: 92 °C (198 °F) - closed cup
Ignition temperature	: 540 °C
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapor pressure	: 0.1 hPa (20 °C)
Density	: 0.98 g/cm ³ (20 °C)
Bulk density	: No data available
Water solubility	: 2.2 g/l (20 °C) / Soluble: alcohol

10 Stability And Reactivity :

Chemical stability

Stable under recommended storage conditions.

Materials to avoid

Strong acids

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - nitrogen oxides (NO_x)

11 Toxicological Information :

Acute toxicity	: LD 50 oral LD50 rat 757 mg/kg LD 50 dermal LD50 rat 1030 mg/kg
RTECS#	: No data available
Carcinogenicity	: 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. 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.
Potential health effects	: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation. Ingestion May be harmful if swallowed.
Special Remarks on other Toxic Effects on Humans:	: Inhalation - May cause respiratory irritation.

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12 Ecological Information :

Ecotoxicity	:	
Toxicity to fish	:	96 Hr LC50 Brachydanio rerio: 42 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 8.12 mg/L; 96 Hr LC50 Pimephales promelas: 9.92 mg/L
Toxicity to daphnia and other aquatic invertebrates.	:	96 Hr LC50 Daphnia magna: 8.85 mg/L Water hazard class 1 (Self-assessment): slightly hazardous for water.

13 Disposal Considerations :

Product

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. Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

14 Transport Information :


UN No. : 2735 Hazard Class : 8 Packing Group : III
Proper shipping name: Amines, liquid, corrosive, N.O.S.
Declaration (railroad and road) ADR, RID:
Declaration (transport by sea) IMDG-Code:
Declaration for Air shipment (IATA):
Packing instruction, passenger : 309 ; Quantity : 5 litre
Packing instruction, cargo : 310 ; Quantity : 60 litre

15 Regulatory Information :

Safety information according to GHS

Hazard Statement(s) : H302 + H312: Harmful if swallowed or in contact with skin.
H314: Causes severe skin burns and eye damage.

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Precautionary Statement(s)	: P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. 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	: Warning/ Danger
Hazard Pictogram(s)	: 
RTECS	: -
Storage class	: 8 A Combustible substances, corrosive
WGK	: WGK 2 water endangering
Index No.	: -
Labeling according to EC Directives	
Symbol(s):	: C : Corrosive; Harmful
Risk phrase(s):	R 21/22-34: Harmful in contact with skin and if swallowed. Causes burns. R/52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrase(s):	S 26-36/37/39-45: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Germany Water Classification 4-ISOPROPYLANILINE (99-88-7) Number 4463, hazard class 2 - hazard to waters	

16 Other Information:

DISCLAIMER: Deepak Nitrite Ltd. 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.