

Material Safety Data Sheet	p-Nitrocumene (PNC)
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1 Product And Company Identification :	
Product Name	: p-Nitrocumene (PNC)
Other/Generic Names	: 1-Isopropyl-4-nitrobenzene 2-Nitrocumene 2-(4-NITROPHENYL)PROPANE 1-nitro-4-(propan-2-yl)benzene
CAS No.	: 1817-47-6
Product use	: It is used for production of 4-aminocumene which is used as intermediate for Agro , pharma, Dyes
Supplier	Deepak Nitrite Ltd. Aaditya-I, National Highway No. 8, Chhani Road, Vadodara - 390 024, India Manufacturing facilities at : Vadodara, Roha, Talaja & 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 Hazard Identification :	
GHS classification (Classification according to Regulation (EC) No 1272/2008)	Hazard statement (s)
Health Hazards : 0 Flammability: 1 Physical hazards: 0	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
	Precautionary Statement (s)
	P 280 : Wear protective gloves/protective clothing / eye protection / face protection 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 : IF IN EYE Rinse cautiously with water for several minutes. Remove contact lenses , if present and easy to do . Continue sensing. P309+P311 : If Exposed or if feel unwell : Call a POISON CENTER or doctor/Physician P501 : Dispose of contents/container in accordance with local regulation.

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EC classification (Classification according to Directive 67/548/EEC)

T: R36/37/38 Irritation to eyes, respiration system and skin.
R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.

N: Acute aquatic toxicity: 2 (water polluting) WGK
Hazard pictograms



Signal word

Warning

3 Composition / Information On Ingredients :

Chemical formula : $C_9H_{11}NO_2$
Common Name : p-Nitrocumene (PNC)
Synonyms : 1-Isopropyl-4-nitrobenzene
2-Nitrocumene
2-(4-NITROPHENYL)PROPANE
Molecular weight : 165.19 g/mol
CAS No. : 1817-47-6
Index No. : -
UN No. : 2810
EINECS No. : 217-326-6

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.

Specific methods:

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

6 Accidental Release Measures :

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

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 :

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 :

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. 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

Eye protection

Face shield and safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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	: Yellow to brown
Odour	: Characteristic odour
pH (1% Solution)	: 3.9
Boiling Point/range	: 236.4 °C Press: 760 Torr
Melting point	: -
Flash Point	: 99.9 ±. 14.3 °C
Autoignition temperature	: 435 °C
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour Pressure	: 0.0728 Torr Temp: 25 °C
Density	: 1.091 ±. 0.06 g/cm ³ Temp: 20 °C
Solubility water	: < 0.1 %
Relative vapour density	: No data available

10 Stability And Reactivity :

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Storage stability:

Stable under recommended storage conditions.

Materials to avoid

Oxidizing agents, Strong bases. Incompatible materials, reducing agents, strong bases, amines, alkalis.

Condition to avoid

Incompatible materials. oxidizing agents, strong bases

Hazardous decomposition products

Carbon monoxide, carbon dioxide. Carbon oxides, nitrogen oxides (NOx)

11 Toxicological Information :

Acute toxicity : LD₅₀ Oral Rat 1610 mg/kg
LC₅₀ rat 4 hour(s) > 6.4 mg/l

RTECS# : CAS No. 1817-47-6 unlisted.

Category of danger : Inhalation - May cause respiratory irritation.

Storage class : No data available

Carcinogenicity : Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

Potential health effects : **Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

12 Ecological Information :

Acute fish toxicity LC₅₀ : Brachydanio rerio (Fish, fresh water)
10 – 12.5 mg/l 96 hour(s)

Acute toxicity to aquatic invertebrates EC₅₀ : Daphnia magna (Crustacea) 24 hour(s) 10 – 12.0 mg/l
WGK - 2

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.

Packaging

Dispose of as unused product.

14 Transport Information :

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UN No. : 2810

Hazard Class : 6

Packing Group : II

Declaration (railroad and road) ADR, RID
UN 2810- 6 -II Toxic liquid, organic N.O.S., p-Nitrocumene
Declaration (transport by sea) IMDG-Code :
UN 2810- 6 -II Toxic liquid, organic N.O.S., p-Nitrocumene
Declaration (transport by air) IATA-DGR
UN 2810- 6 -II Toxic liquid, organic N.O.S., p-Nitrocumene

15 Regulatory Information :

Safety Information according to GHS

Hazard Statement (s)	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Precautionary Statement (s)	P 280 : Wear protective gloves/protective clothing / eye protection / face protection 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 : IF IN EYE Rinse cautiously with water for several minutes. Remove contact lenses , if present and easy to do . Continue sensing. P309+P311 : If Exposed or if feel unwell : Call a POISON CENTER or doctor/Physician P501 : Dispose of contents/container in accordance with local regulation.
Signal Word	Warning

Hazard Pictogram(s):



RTECS# : CAS No. 1817-47-6 unlisted.

Labeling according to EC directives

Hazard symbols	: T, Xi,
Risk phrases	: R36 Irritating to eyes. R37 Irritating to respiratory system. R38 Irritating to skin.
Safety phrases	: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S38 In case of insufficient ventilation, wear suitable respiratory equipment.

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DSL Status

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list. p-Nitrocumene CAS-No. 1817-47-6

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

(De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

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.