



MATERIAL SAFETY DATA SHEET

N,N-Diethylpyridine-3-carboxamide Nikethamide-BP

1. Identification

- a. Product name: Nikethamide B.P.
- b. Synonym: N,N-Diethylpyridine-3-carboxamide
- c. Chemical formula: $C_{10}H_{14}N_2O$
- d. CAS no.: 59 - 26 - 7

2. Composition / Information on the Components

- a. Assay: $\geq 99\%$
- b. Water: $\leq 0.3\%$
- c. Molecular weight: 178.23


3. Hazard information

- a. It is a colourless or faintly yellowish liquid or crystalline solid, taste faintly bitter, followed by a faint sensation of warmth. It is CNS and respiratory stimulant.
- b. **Health effects:**
 - i. *Inhalation*: It is not volatile and practically odourless. No information found on inhalation hazards
 - ii. *Eye*: Causes eye irritation.
 - iii. *Skin*: A Sensation of warmth – may cause irritation.
 - iv. *Ingestion*: When taken orally, it is rapidly absorbed and converted in the body to nicotinamide – vide toxicity data
 - v. *Parenteral Administration*: Large repeated doses when administered intravenously produce convulsions – both clonic and toxic of spontaneous origin

4. First Aid Measures:

- a. *Eyes*: Flush eyes with plenty of water for at least 30 minutes. Get medical advice.
- b. *Skin*: Wash the affected area with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical advice if irritation develops.
- c. *Inhalation*: If feel sick, the person should be removed to fresh air. Get medical advice.
- d. *Ingestion*: Give 2 to 4 glasses of water. Induce vomiting by giving warm salt water (one tablespoonful of salt per glass of water), repeat until vomit fluid is clear. Caution – Never give anything by mouth to an unconscious patient. Immediately get medical advice.

For Process Chemicals Co.


Q.A. In-Charge

Page 1 of 3

MEMBER

PHARMEXCIL ★ IDMA ★ BDMA (I) ★ ICMMA ★ BNCCI

Regd. Office & Factory at

B8 & 9, BEHALA INDUSTRIAL ESTATE, BONOMALI NASKAR ROAD, KOLKATA - 700 060, INDIA, PH : (033) 2492 5242

AN ISO 9001 : 2008 CERTIFIED, cGMP COMPLIED UNIT

Phone : (033) 2248-1340
(033) 2210-1964
Fax : (033) 2243-0571
E-mail : process.chemicals.co@gmail.com
Website : www.processchemicals.in

5. Fire Fighting Measures

The material is not inflammable or explosive. The substance is not volatile. Suitable extinguishing measure required for organic liquid compound to be taken. Protective clothing and self-contained breathing apparatus should be used.

6. Accidental Release Measures

Avoid contact wear gloves and protective shoes while collecting the spilled liquid by suitable measures. Wash out the area with plenty of water.

7. Handling and storage

Avoid contact with the substance – wear gloves, wash thoroughly after handling. Wash hands before taking food or drinks. Store at cool dry place, protected from direct sunlight in a tightly closed container. Keep away from food and beverages.

8. Exposure controls, Personal Protection

Avoid exposure by technical organizational measures

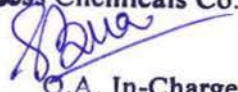
- Hand Protection: Wear appropriate gloves
- Eye Protection: Wear appropriate goggles
- Skin Protection: Wear appropriate clothing
- Respiratory Protection: Self-contained breathing equipment.

9. Physical & Chemical Properties:

Description:	A colourless to faintly yellowish liquid or crystalline solid
Solubility:	Miscible with water in all proportions.
pH :	25% w/w soln. Has a pH between 6.0 to 7.8
Density:	1.058 gm/cc
Boiling point:	296° C – 300° C (with decomposition)
Vapour pressure:	0.98 Kpa
Flash point:	152° C (pensky Martens closed cup method)
Mol. Formula:	C ₁₀ H ₁₄ N ₂ O
Mol. Weight:	178.23

10. Stability and Reactivity:

- Stable at room temperature in tightly closed containers for four years from the date of manufacture.
- Avoid exposure to excess heat and ignition sources.
- Incompatible with oxidising agents; Sodium carbonate
- Avoid contact with rubber, HDPE, LDPE, PVC and other such polymers

For Process Chemicals Co.

Q.A. In-Charge

Phone : (033) 2248-1340
(033) 2210-1964
Fax : (033) 2243-0571
E-mail : process.chemicals.co@gmail.com
Website : www.processchemicals.in

11. Toxicity Data:

- | | |
|-----------------------------------|-----------|
| a. Dermal: | 400 mg/Kg |
| b. LD orally in rabbits: | 650 mg/kg |
| c. LD ₅₀ i.p. in rats: | 272 mg/kg |
| d. LD ₅₀ s.c. in rats: | 240 mg/kg |
| e. Inhalation: | 4 mg/L |

12. Ecological information:

No data available for Persistence & degradability / Bioaccumulative potential /
Mobility in soil / Other adverse effects etc.

13. Disposal considerations

To be disposed in a manner consistent with federal, state and local regulations through
a licensed Waste Manager

14. Transport Information

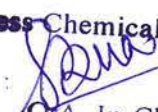
Proper Shipping name:	Toxic Liquid, Organic, N.O.S. (Nikethamide B.P.)
Class:	6.1
UN number:	2810
Group:	III
Packaging instruction:	P001

15. Regulatory information:

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

16. Other information:

The information contained in this data sheet is believed to be true to the best of our knowledge. But any recommendation and suggestion made in this sheet are without any warranty, express or implied, with respect to such information and we assure no liability for claims, losses & damages resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

For Process Chemicals Co.

Q.A. In-Charge

Phone : (033) 2248-1340
(033) 2210-1964
Fax : (033) 2243-0571
E-mail : process.chemicals.co@gmail.com
Website : www.processchemicals.in

**Process
Chemicals Co.**



MANUFACTURERS & EXPORTERS OF BULK DRUGS & FINE CHEMICALS
2, B. B. D. BAG (E), POWER TOOLS BHAVAN, 3RD FLOOR, KOLKATA - 700 001, INDIA

MATERIAL SAFETY DATA SHEET

N,N-Diethylpyridine-3-carboxamide Nikethamide BP

1. Identification

- a. Product name: Nikethamide B.P.
- b. Synonym: N,N-Diethylpyridine-3-carboxamide
- c. Chemical formula: $C_{10}H_{14}N_2O$
- d. CAS no.: 59 - 26 - 7

2. Composition / Information on the Components

- a. Assay: $\geq 99\%$
- b. Water: $\leq 0.3\%$
- c. Molecular weight: 178.23


3. Hazard information

- a. It is a colourless or faintly yellowish liquid or crystalline solid, taste faintly bitter, followed by a faint sensation of warmth. It is CNS and respiratory stimulant.
- b. **Health effects:**
 - i. *Inhalation:* It is not volatile and practically odourless. No information found on inhalation hazards
 - ii. *Eye:* Causes eye irritation.
 - iii. *Skin:* A Sensation of warmth – may cause irritation.
 - iv. *Ingestion:* When taken orally, it is rapidly absorbed and converted in the body to nicotinamide – vide toxicity data
 - v. *Parenteral Administration:* Large repeated doses when administered intravenously produce convulsions – both clonic and toxic of spontaneous origin

4. First Aid Measures:

- a. *Eyes:* Flush eyes with plenty of water for at least 30 minutes. Get medical advice.
- b. *Skin:* Wash the affected area with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical advice if irritation develops.
- c. *Inhalation:* If feel sick, the person should be removed to fresh air. Get medical advice.
- d. *Ingestion:* Give 2 to 4 glasses of water. Induce vomiting by giving warm salt water (one tablespoonful of salt per glass of water), repeat until vomit fluid is clear. Caution – Never give anything by mouth to an unconscious patient. Immediately get medical advice.

For Process Chemicals Co.


Q.A. In-Charge

Page 1 of 3

MEMBER

PHARMEXCIL ★ IDMA ★ BDMA (I) ★ ICMMA ★ BNCCI

Regd. Office & Factory at

B8 & 9, BEHALA INDUSTRIAL ESTATE, BONOMALI NASKAR ROAD, KOLKATA - 700 060, INDIA, PH : (033) 2492 5242

AN ISO 9001 : 2008 CERTIFIED, cGMP COMPLIED UNIT

Phone : (033) 2248-1340
(033) 2210-1964
Fax : (033) 2243-0571
E-mail : process.chemicals.co@gmail.com
Website : www.processchemicals.in

5. Fire Fighting Measures

The material is not inflammable or explosive. The substance is not volatile. Suitable extinguishing measure required for organic liquid compound to be taken. Protective clothing and self-contained breathing apparatus should be used.

6. Accidental Release Measures

Avoid contact wear gloves and protective shoes while collecting the spilled liquid by suitable measures. Wash out the area with plenty of water.

7. Handling and storage

Avoid contact with the substance – wear gloves, wash thoroughly after handling. Wash hands before taking food or drinks. Store at cool dry place, protected from direct sunlight in a tightly closed container. Keep away from food and beverages.

8. Exposure controls, Personal Protection

Avoid exposure by technical organizational measures


- Hand Protection: Wear appropriate gloves
- Eye Protection: Wear appropriate goggles
- Skin Protection: Wear appropriate clothing
- Respiratory Protection: Self-contained breathing equipment.

9. Physical & Chemical Properties:

Description: A colourless to faintly yellowish liquid or crystalline solid
Solubility: Miscible with water in all proportions.
pH : 25% w/w soln. Has a pH between 6.0 to 7.8
Density: 1.058 gm/cc
Boiling point: 296° C – 300° C (with decomposition)
Vapour pressure: 0.98 Kpa
Flash point: 152° C (pensky Martens closed cup method)
Mol. Formula: $C_{10}H_{14}N_2O$
Mol. Weight: 178.23

10. Stability and Reactivity:

- Stable at room temperature in tightly closed containers for four years from the date of manufacture.
- Avoid exposure to excess heat and ignition sources.
- Incompatible with oxidising agents; Sodium carbonate
- Avoid contact with rubber, HDPE, LDPE, PVC and other such polymers

For Process Chemicals Co.

Q.A. In-Charge

Phone : (033) 2248-1340
(033) 2210-1964
Fax : (033) 2243-0571
E-mail : process.chemicals.co@gmail.com
Website : www.processchemicals.in

11. Toxicity Data:

- a. Dermal LD₅₀: 400 mg/Kg
- b. LD orally in rabbits: 650 mg/kg
- c. LD₅₀ i.p. in rats: 272 mg/kg
- d. LD₅₀ s.c. in rats: 240 mg/kg
- e. Inhalation LC₅₀: 4 mg/L

12. Ecological information:

No data available for Persistence & degradability / Bioaccumulative potential /
Mobility in soil / Other adverse effects etc.

13. Disposal considerations

To be disposed in a manner consistent with federal, state and local regulations through
a licensed Waste Manager

14. Transport Information


Proper Shipping name: Toxic Liquid, Organic, N.O.S.
(Nikethamide B.P.)
Class: 6.1
UN number: 2810
Group: III
Packaging instruction: 655

15. Regulatory information:

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

16. Other information:

The information contained in this data sheet is believed to be true to the best of our
knowledge. But any recommendation and suggestion made in this sheet are without
any warranty, express or implied, with respect to such information and we assure no
liability for claims, losses & damages resulting from its use. Users should make their
own investigations to determine the suitability of the information for their particular
purposes.

For Process Chemicals Co.

Q.A. In-Charge