

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

### NICOTINAMIDE (FOR BIOCHEMISTRY)

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : NICOTINAMIDE (FOR BIOCHEMISTRY)

Product code : N0144900500

Identification of the product : NICOTINAMIDE 99.5%  
 CAS No: 98-92-0

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

##### 1.3. Details of the supplier of the safety data sheet

Company identification : SUVCHEM  
 Chaitanya Tower, 2nd Floor, Office # 206,  
 Siddharth Nagar, S.V. Road,  
 Goregaon (West), Mumbai - 400062,  
 Maharashtra, India.  
 Contact: +91 22 28725393 / 94 / 95  
 Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

##### 2.1. Classification of the substance or mixture

##### Classification EC 67/548 or EC 1999/45

Classification : Xi; R36/37/38

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -  
 Category 3 - Warning (CLP : STOT SE 3) H335  
 Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315  
 Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

##### 2.2. Label elements

##### Labelling EC 67/548 or EC 1999/45

**MATERIAL SAFETY DATA SHEET (MSDS)**
**NICOTINAMIDE (FOR BIOCHEMISTRY)**
**2. Hazards identification -DSD (continued)**

Symbol(s)



Symbol(s)

: Xi : Irritant

R Phrase(s)

: R36/37/38 : Irritating to eyes, respiratory system and skin.

S Phrase(s)

 : S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S36 : Wear suitable protective clothing.

**Labelling Regulation EC 1272/2008 (CLP)**

Hazard pictograms



Signal words

: Warning

Hazard statements

 : H319 : Causes serious eye irritation.  
 H315 : Causes skin irritation.  
 H335 : May cause respiratory irritation.

Precautionary statements

**• Prevention**

 : P280: Wear protective gloves, protective clothing, eye protection, face protection.  
 P271: Use only outdoors or in a well-ventilated area.  
 P261: Avoid breathing dust, fume, gas, mist, vapours, spray.  
 P264: Wash thoroughly after handling.

**• Response**

 : P302+P352: IF ON SKIN : Wash with plenty of soap and water.  
 P332+P313: If skin irritation occurs : Get medical advice.  
 P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
 P363: Wash contaminated clothing before reuse.

**• Storage**

 : P403+P233: Store in well-ventilated place. Keep container tightly closed.  
 P405: Store locked up.

**• Disposal considerations**

: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**2.3. Other hazards**

Other hazards

: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**NICOTINAMIDE (FOR BIOCHEMISTRY)**
**3. Composition/information on ingredients**

**Substance / Preparation** : NICOTINAMIDE 99.5%

Substance.

Contains no other components or impurities which will influence the classification of the product.

**4. First aid measures**
**4.1. Description of first aid measures**

**Inhalation** : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

**Skin contact** : Specific treatment (see on this label). Get medical advice. If skin irritation occurs : Wash with plenty of soap and water. Wash contaminated clothing before reuse.

**Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice.

**Ingestion** : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms relating to use** : Causes serious eye irritation.  
Causes skin irritation. May cause respiratory irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**5. Fire-fighting measures**
**5.1. Extinguishing media**

**Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media** : Do not use a heavy water stream.

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

**5.2. Special hazards arising from the substance or mixture**

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

**5.3. Advice for fire-fighters**

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**NICOTINAMIDE (FOR BIOCHEMISTRY)**
**5. Fire-fighting measures (continued)**

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**6. Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

**For emergency responders** : Equip cleanup crew with proper protection.  
Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

**6.2. Environmental precautions**

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

**6.3. Methods and material for containment and cleaning up**

**Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust.  
Store away from other materials.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

**Handling** : Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.  
Wash thoroughly after handling.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

**Special precautions** : Avoid breathing dust, fume, gas, mist, vapours, spray.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

**7.3. Specific end use(s)**

**Specific end use(s)** : None.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**NICOTINAMIDE (FOR BIOCHEMISTRY)**
**8. Exposure controls/personal protection**
**8.1. Exposure controls**

|                          |                                           |
|--------------------------|-------------------------------------------|
| Personal protection      | : Avoid all unnecessary exposure.         |
| • Respiratory protection | : Wear approved mask.                     |
| • Hand protection        | : Wear protective gloves.                 |
| • Skin protection        | : Wear suitable protective clothing.      |
| • Eye protection         | : Chemical goggles or safety glasses.     |
| • Others                 | : When using, do not eat, drink or smoke. |

**8.2. Control parameters**

|                              |                      |
|------------------------------|----------------------|
| Occupational Exposure Limits | : No data available. |
|------------------------------|----------------------|

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

|                                    |                      |
|------------------------------------|----------------------|
| Physical state at 20 °C            | : Solid.             |
| Colour                             | : White crystalline  |
| Odour                              | : Odorless           |
| Odour threshold                    | : No data available. |
| pH value                           | : Not applicable.    |
| Melting point [°C]                 | : 128 - 131 °C       |
| Decomposition point [°C]           | : >=200 °C           |
| Critical temperature [°C]          | : N/A                |
| Auto-ignition temperature [°C]     | : 480 °C             |
| Flammability (solid, gas)          | : N/A                |
| Flash point [°C]                   | : 150 °C             |
| Boiling point [°C]                 | : 150 - 160°C        |
| Initial boiling point [°C]         | : 150 °C             |
| Final boiling point [°C]           | : 160°C              |
| Evaporation rate                   | : N/A                |
| Vapour pressure [20°C]             | : N/A                |
| Vapour pressure mm/Hg              | : N/A                |
| Vapour density                     | : 4,22               |
| Density [g/cm3]                    | : 1,4                |
| Relative density, gas (air=1)      | : N/A                |
| Relative density, liquid (water=1) | : N/A                |
| Solubility in water [% weight]     | : 691 g/l at 20 °C   |

**MATERIAL SAFETY DATA SHEET (MSDS)**
**NICOTINAMIDE (FOR BIOCHEMISTRY)**
**9. Physical and chemical properties (continued)**

|                                        |                      |
|----------------------------------------|----------------------|
| Solubility in water                    | : N/A                |
| Log Pow octanol / water at 20°C        | : No data available. |
| Solubility                             | : 9                  |
| Viscosity at 40°C [mm <sup>2</sup> /s] | : N/A                |

**9.2. Other information**

|                              |                      |
|------------------------------|----------------------|
| Explosive properties         | : N/A                |
| Explosion limits - upper [%] | : N/A                |
| Explosion limits - lower [%] | : N/A                |
| Oxidising properties         | : No data available. |

**10. Stability and reactivity**
**10.1. Reactivity**

|            |                    |
|------------|--------------------|
| Reactivity | : Not established. |
|------------|--------------------|

**10.2. Chemical stability**

|                    |                                                |
|--------------------|------------------------------------------------|
| Chemical stability | : Stable under recommended storage conditions. |
|--------------------|------------------------------------------------|

**10.3. Possibility of hazardous reactions**

|                     |                    |
|---------------------|--------------------|
| Hazardous reactions | : Not established. |
|---------------------|--------------------|

**10.4. Conditions to avoid**

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| Conditions to avoid | : Direct sunlight. Extremely high or low temperatures. |
|---------------------|--------------------------------------------------------|

**10.5. Incompatible materials**

|                    |                               |
|--------------------|-------------------------------|
| Materials to avoid | : Strong acids. Strong bases. |
|--------------------|-------------------------------|

**10.6. Hazardous decomposition products**

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Hazardous decomposition products | : Fumes. Carbon monoxide. Carbon dioxide. |
|----------------------------------|-------------------------------------------|

**11. Toxicological information**
**11.1. Information on toxicological effects**

|                |  |
|----------------|--|
| Acute toxicity |  |
|----------------|--|

**MATERIAL SAFETY DATA SHEET (MSDS)**
**NICOTINAMIDE (FOR BIOCHEMISTRY)**
**11. Toxicological information (continued)**

|                        |                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------|
| • Inhalation           | : Based on available data, the classification criteria are not met.                              |
| • Dermal               | : Based on available data, the classification criteria are not met.                              |
| • Ingestion            | : Based on available data, the classification criteria are not met.                              |
| Corrosion              | : Based on available data, the classification criteria are not met.                              |
| Irritation             | : Causes serious eye irritation.<br>Causes skin irritation.<br>May cause respiratory irritation. |
| Sensitization          | : Based on available data, the classification criteria are not met.                              |
| Mutagenicity           | : Based on available data, the classification criteria are not met.                              |
| Carcinogenicity        | : Based on available data, the classification criteria are not met.                              |
| Toxic for reproduction | : Based on available data, the classification criteria are not met.                              |
| STOT-single exposure   | : Based on available data, the classification criteria are not met.                              |
| STOT-repeated exposure | : Based on available data, the classification criteria are not met.                              |
| Aspiration hazard      | : Based on available data, the classification criteria are not met.                              |

**12. Ecological information**
**12.1. Toxicity**

Toxicity information : Not established.

**12.2. Persistence - degradability**

Persistence - degradability : Biodegradable.

**12.3. Bioaccumulative potential**

Bioaccumulative potential : Not established.

**12.4. Mobility in soil**

Mobility in soil : Not established.

**12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**12.6. Other adverse effects**

Environmental precautions : Avoid release to the environment.



**MATERIAL SAFETY DATA SHEET (MSDS)**
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**13. Disposal considerations**
**13.1. Waste treatment methods**

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

**14. Transport information**
**14.1. Land transport (ADR-RID)**

**General information** : Not regulated.

**14.2. Sea transport (IMDG) [English only]**

**General information** : Not regulated.

**14.3. Air transport (ICAO-IATA) [English only]**

**General information** : Not regulated.

**15. Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Safety, health and environmental regulations/legislation specific for the substance or mixture** : Ensure all national/local regulations are observed.

**REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

**15.2. Chemical Safety Assessment**

**Chemical Safety Assessment** : It has not been carried out.

**16. Other information**

**Revision** : Revision - See : \*

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.  
vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006



## MATERIAL SAFETY DATA SHEET (MSDS)

### NICOTINAMIDE (FOR BIOCHEMISTRY)

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

#### DISCLAIMER:

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