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β-NICOTINAMIDE ADENINE DINUCLEOTIDE DISODIUM SALT CAS NO 606-68-8

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

| 1.1 | Product identifiers | | |
|-----|---------------------|---|--|
| | Product name | : | $\beta\text{-Nicotinamide}$ Adenine Dinucleotide Disodium Salt |

CAS-No. : 606-68-8

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

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Identified uses : Laboratory chemicals, Industrial & for professional use only.
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1.3 Details of the supplier of the safety data sheet

| Company | : | Central Drug House (P) Ltd 7/28 Vardaan House New Delhi -110002 INDIA |
|--------------------|---|--|
| Telephone Email | : | +91 11 49404040 care@cdhfinechemical.com |

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances Formula : C₂₁H₂₇N₇O₁₄P₂Na₂ Molecular weight : 709.46 g/mol CAS-No. : 606-68-8 EC-No. : 210-123-3

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 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

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx), Oxides of phosphorus, Sodium oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
- 6.2 Environmental precautions No special environmental precautions required.
- **6.3 Methods and materials for containment and cleaning up** Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
- Conditions for safe storage, including any incompatibilities
 Store with desiccant. Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
 Recommended storage temperature -20 °C
 Light sensitive. Hygroscopic.
 Storage class (TRGS 510): Non Combustible Solids
- **7.3 Specific end use(s)** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| a) | Appearance | Form: powder Colour: beige |
|----|--|-------------------------------|
| b) | Odour | No data available |
| c) | Odour Threshold | No data available |
| d) | рН | No data available |
| e) | Melting point/freezing point | No data available |
| f) | Initial boiling point and boiling range | No data available |
| g) | Flash point | No data available |
| h) | Evaporation rate | No data available |
| i) | Flammability (solid, gas) | No data available |
| j) | Upper/lower flammability or explosive limits | No data available |
| k) | Vapour pressure | No data available |
| I) | Vapour density | No data available |
| m) | Relative density | No data available |
| n) | Water solubility | No data available |

| o) | Partition coefficient: n- | No data available | |
|------------|---------------------------|-------------------|--|
| | octanol/water | | |

- p) Auto-ignition No data available temperature
- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

9.2 Other safety information No data available

SECTION 10: Stability and reactivity

- 10.1 Reactivity No data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5** Incompatible materials Strong oxidizing agents

10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Oxides of phosphorus, Sodium oxides Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data availableDihydronicotinamide-adenine dinucleotide, disodium salt

Skin corrosion/irritation

No data available(Dihydronicotinamide-adenine dinucleotide, disodium salt)

Serious eye damage/eye irritation

No data available(Dihydronicotinamide-adenine dinucleotide, disodium salt)

Respiratory or skin sensitisation

No data available(Dihydronicotinamide-adenine dinucleotide, disodium salt)

Germ cell mutagenicity

No data available(Dihydronicotinamide-adenine dinucleotide, disodium salt)

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.

Reproductive toxicity

No data available(Dihydronicotinamide-adenine dinucleotide, disodium salt)

Specific target organ toxicity - single exposure

No data available(Dihydronicotinamide-adenine dinucleotide, disodium salt)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available(Dihydronicotinamide-adenine dinucleotide, disodium salt)

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Dihydronicotinamide-adenine dinucleotide, disodium salt)

SECTION 12: Ecological information

- 12.1 Toxicity No data available
- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available

12.4 Mobility in soil No data available(Dihydronicotinamide-adenine dinucleotide, disodium salt)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

| 14.1 | UN number ADR/RID: - | IMDG: - | IATA: - |
|------|--|---------------------------|----------|
| 14.2 | UN proper shipping nameADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods | | |
| 14.3 | Transport hazard class(es) ADR/RID: - | IMDG: - | IATA: - |
| 14.4 | Packaging group ADR/RID: - | IMDG: - | IATA: - |
| 14.5 | Environmental hazards ADR/RID: no | IMDG Marine pollutant: no | IATA: no |
| 14.6 | Special precautions for user No data available | | |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.