
Material Safety Data Sheet

Date Written: 2020-06-06

Section 1 - Product and Company Identification

1.1 Product Name	Beta-nicotinamide monucleotide
1.2 Synonyms	Nicotinamide ribonucleoside 5'-phosphate, β-Nicotinamide ribose monophosphate, Nicotinamide ribotide, β-NMN, Nicotinamide monucleotide
1.3 Company	EffePharm (Shanghai) Co., Ltd
Website	www.uthever.com
Address	No.1 Mid Wangdong Rd, Songjiang District, Shanghai, 201601, China
E-mail	info@effepharm.com
1.4 Emergency Tel.	+86-21-57709202

Section 2 –Hazards Identification

2.1 Classification of the substance or mixture

Physical hazards	Not classified
Health hazards	Not classified
Environmental hazards	Not classified

2.2 Label elements

GHS Signal Word	None
GHS Hazard Phrases	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.
GHS Precaution Phrases:	No phrases apply.
GHS Response Phrases:	No phrases apply.

Section 3 Composition, Information on Ingredients

CAS#	1094-61-7
Formula	C11H15N2O8P
Molecular Weight	334.219 g/mol
Concentration	100%
EC Number	214-136-5

Section 4 – First Aid Measures

4.1 Description of first aid measures

General information	Get medical advice/attention if you feel unwell.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if symptoms are severe or persist.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if symptoms are severe or persist.
Skin contact	Remove contaminated clothing. Rinse with water. Continue to rinse for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if symptoms are severe or persist.
Eye contact	Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist.
Other	Remove and wash/dispose of contaminated clothing promptly.

4.2 Most important symptoms and effects, both acute and delayed

General information	See Section 11 for additional information on health hazards.
---------------------	--------------------------------------------------------------

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
----------------------	------------------------

Section 5 – Handling and Storage

5.1 Storage

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

5.2 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

Section 6 – Exposure Controls/Personal Protection

6.1 Control parameters

Occupational exposure limits	No exposure limits known for ingredient(s).
------------------------------	---------------------------------------------

6.2 Appropriate engineering controls

General industrial hygiene practice

6.3 Personal protection

Appropriate engineering controls	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with NIOSH (US) or EN 166(EU).
Hand protection	Wear protective gloves. To protect hands from chemicals, gloves should comply with European Standard EN374.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) 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).
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.

Section 7 – Fire Fighting Measures

7.1 Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

7.2 Special hazards arising from the substance or mixture

Specific hazards	None known
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. Oxides of phosphorus.

7.3 Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. Use protective equipment appropriate for surrounding materials.
------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Section 8 –Physical and Chemical Properties

8.1 Information on basic physical and chemical properties

Appearance	White powder
Odor	Slight characteristic odor
pH	No data available
Melting point	165 - 175 °C
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility(ies)	Soluble in water
Partition coefficient	No data available
Auto-ignition temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Explosive properties	No data available
Oxidising properties	No data available

8.2 Other information

Molecular weight	334.22
------------------	--------

Section 9 – Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures	Avoid raising and breathing dust, and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
Environmental Precautions	Take steps to avoid release into the environment, if safe to do so.
Methods and Material For Containment and Cleaning Up	Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 10 – Stability and Reactivity

Reactivity	No data available.
Stability	Stable
Stability Note(s)	Stable if stored in accordance with information listed on the product insert.
Polymerization	Will not occur
Conditions To Avoid	No data available.
Incompatibility – Materials to avoid	strong oxidizing agents
Hazardous Decomposition or Byproducts	carbon dioxide, carbon monoxide, nitrogen oxides, phosphorous oxides

Section 11 – Toxicological Information

Acute toxicity	No data available.
Respiratory or skin sensitization	No data available.

Germ cell mutagenicity	No data available.
Carcinogenicity	IARC: No component of this product presents 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.
Specific target organ toxicity - single	No data available.
Specific target organ toxicity - repeated	No data available.
Aspiration hazard	No data available.

Section 12 – Ecological Information

Toxicity:	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
Results of PBT and vPvB assessment:	No data available.
Other adverse effects:	No data available.

Section 13 – Disposal Considerations

13.1 Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose in accordance with local, state, and federal regulations.

13.2 Contaminated packaging

Dispose of as unused product.

Section 14 – Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name:	Not dangerous goods.
DOT Hazard Class:	
UN/NA Number:	

14.2 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.
UN Number:
Hazard Class:

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

14.4 Additional Transport Information:

Transport in accordance with local, state, and federal regulations.

Section 15 – Regulatory Information

No data available.

Section 16 – Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. User should make their own investigations to determine the suitability of the information for their particular purposes.