

**Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

**Section 1: Identification****Product Name** Nicotinamide Adenine Dinucleotide (NAD)**Commercial Name** Not available.**Product Use** Not available.**Restrictions On Use** Not available.**Product Code** 30-3546**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300****Section 2: Hazard(s) Identification****OSHA Haz Com:** Not available.**CFR 1910.1200****Signal Word** NON-HAZARDOUS**Hazard Statement(s)** Not available.**Pictogram(s) or Symbol(s)****Precautionary Statement(s):****Prevention** Not available.**Response** Not available.**Storage** Not available.**Disposal** Not available.**Section 3: Composition/Information on Ingredients****Substance/Mixture** Substance**Components** Nicotinamide adenine dinucleotide**% By Weight** 100**CAS#** 53-84-9**Molecular Weight** 717.5 g/mole**Chemical Formula** C<sub>21</sub>H<sub>27</sub>N<sub>7</sub>O<sub>14</sub>P<sub>2</sub>·3H<sub>2</sub>O**Synonym(s)** Not available.**Mixtures**

<b>Name</b>	<b>CAS#</b>	<b>% by Weight</b>	<b>TLV/PEL</b>	<b>LC50/LD50</b>
Nicotinamide adenine dinucleotide	53-84-9	100	Not available.	Not available.

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Clean nose by blowing. Move to an outside area and breathe fresh air. Seek medical advice.
<b>Skin Contact</b>	Wash thoroughly with soap and water. Seek medical advice.
<b>Eye Contact</b>	Rinse with copious amounts of fresh water or a recommended eye bath solution. Seek medical advice.
<b>Ingestion</b>	Rinse mouth thoroughly and drink plenty of water. Seek medical advice.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Not available.
<b>Delayed</b>	Not available.
<b>Immediate Medical Attention</b>	
Not available.	

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Not available

**Unsuitable Extinguishing Media**

Not available

**Products of Combustion**

Not available

**Firefighters Special Equipment and Precautions**

Not restricted. Dangerous decomposition is not anticipated.

**Section 6: Accidental Release Measures**

Warning in persons: Use safety glasses, goggles, rubbers, latex protective gloves or dust mask, if necessary. Removal method: Use normal clean up procedures for spillage and wash thoroughly with excess water. Warning in removal; prevention of secondary damage: Avoid physical contact during removal. Dispose the waste down through drainage system with copious amounts of water.

**Section 7: Handling and Storage**

Warning in handling: The product itself does not burn. But a well ventilated area is recommended for handling of the product. Ventilation, prevention of steam or dust production, etc.: A well ventilated area is recommended for handling of the product. Prevention of mixing, contact, falling, etc.: Not restricted. Warning in storage: Store in the dark. Keep off humidity. Storage environment such as temperature and humidity: Store below -20°C. Handling during short term such as transportation is allowed at 1-10°C. Structure of storage space: Not restricted

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	Not available.
<b>Engineering Controls</b>	Facility sealing is not applicable. Wash facility by normal clean up procedures.
<b>Personal Protection</b>	Protective equipment: Not applicable. Ventilated room is recommended. Use of masks, gloves, goggles, etc.: Dust mask is recommended even though no personal respiratory protective equipment is strongly required. Use of safety glasses, goggles, rubbers or latex protective gloves is recommended. Wash hands before breaks and at the end of workday. Hygiene: Wash hands before breaks and at the end of work.

**Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	yellowish powder		
<b>Odor</b>	Odorless		
<b>Odor Threshold</b>	Not available.		
<b>Melting Point</b>	Decomposes.	<b>pH</b>	Not available.
<b>Freezing Point</b>	Not available.	<b>Vapor Pressure</b>	Not applicable.
<b>Boiling Point/Range</b>	Not available.	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not available.	<b>Evaporation Rate</b>	Not available.
<b>Flash Point</b>	Not available.	<b>Autoignition temperature</b>	Not available.
<b>Flammability</b>	Not available.	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available.
		<b>Upper</b>	Not available.
<b>Solubility(ies)</b>	Miscible in water		
<b>Other</b>	Not available.		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available.
<b>Chemical Stability</b>	Stable under refrigerated conditions
<b>Hazardous Polymerization</b>	Not available.
<b>Conditions to Avoid</b>	Avoid from direct irradiation of sunlight and high temperature
<b>Incompatible Materials</b>	Not available.
<b>Hazardous Decomposition Products</b>	Not available.

**Section 11: Toxicological Information****RTECS** UU3450000**Acute Toxicity**

Not available.

**Skin Corrosion/Irritation**

Not available.

**Serious Eye Damage/Irritation**

Not available.

**Respiratory or Skin Sensitization**

Not available.

**Germ Cell Mutagenicity**

Not available.

**Carcinogenicity**

Not available.

**Reproductive Toxicity**

Not available.

**Routes of Entry**

Not available.

**Symptoms Related to Exposure**

Not available.

**Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

**Potential Health Effects**

Not available.

**Target Organ(s)**

Not available.

**Section 12: Ecological Information****Ecotoxicity**

Not available.

**Persistence and Degradability**

Not found. The product is a natural substance present in physical environment.

**Bioaccumulative Potential**

Not available.

**Mobility in Soil**

Not available.

**Other Adverse Effects**

Not available.

**Section 13: Disposal Considerations****Waste Disposal**

Dispose of empty containers via local recycling or waste disposal routes, if necessary, clean them before hand.

**Disposal of Container**

Not available.

**Other Considerations**

Not available.

**Section 14: Transport Information****DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

**Section 15: Regulatory Information****Regulations**

[Appendix XX, Class I Designated Chemical Substances, Law Concerning the Reporting, etc. of Release in to the Environment of Specific Chemical Substances and Promoting Improvements in Their Management] Not found [Other applicable laws such as Industrial Safety and Health Law, Poisonous and Deleterious Substances Control Law, Agricultural Chemicals Regulation Law, etc.] Not found [Labeling]: It is not found that the product has to be labeled in accordance with laws and regulations.

**Other**

WHMIS Not controlled under WHMIS (Canada). (Canada);DSCL (EEC) This product is not classified according to the EU regulations.;Lab coat.;Safety glasses.

**Section 16: Other Information**

Not available.