

**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** C₂₁H₂₇N₇O₁₄P₂·3H₂O**Synonym(s)** Not available.**Mixtures**

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

Section 4: First-Aid Measures

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

Exposure Limits	Not available.
Engineering Controls	Facility sealing is not applicable. Wash facility by normal clean up procedures.
Personal Protection	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.

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Section 9: Physical and Chemical Properties

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

Section 10: Stability and Reactivity

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

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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.