

## Section 1: Identification

<b>Common Name/Trade Name</b>	NICOTINAMIDE ADENINE DINUCLEOTIDE	
<b>Supplier Information</b>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours) Outside USA and Canada: +1 703-527-3887 NSW Poisons Information Centre: 131 126 (24 hours)
<b>Distributor Name</b>	Bella Corp Trading Pty Ltd 6/34 Dominions Road, Ashmore QLD 4214, Australia Telephone: 07 5597 4169 Email: <a href="mailto:bellacorp@bellacorp.com.au">bellacorp@bellacorp.com.au</a>	
<b>Product Synonym(s)</b>	N/A	
<b>Relevant Use(s) of Product</b>	Manufacture or Compounding of Substances	

## Section 2: Hazards Identification

<b>Classification of Substance or Mixture</b>	Not a hazardous substance or mixture.
<b>Signal Word</b>	None
<b>Hazard Statement(s)</b>	N/A
<b>Pictogram(s)</b>	N/A
<b>Precautionary Statement(s)</b>	N/A
<b>Hazards Not Otherwise Classified</b>	None
<b>Ingredient(s) with Unknown Toxicity</b>	N/A

## Section 3: Composition/Information on Ingredients

<b>Chemical Name</b>	Nicotinamide Adenine Dinucleotide
<b>Common Name</b>	Nicotinamide Adenine Dinucleotide
<b>CAS Number</b>	53-84-9
<b>Impurities and/or Stabilizing Additives</b>	Not available

## Section 4: First Aid Measures

<b>General Advice</b>	Not available.
<b>If Inhaled</b>	After inhalation: fresh air.
<b>In Case of Skin Contact</b>	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
<b>In Case of Eye Contact</b>	After eye contact: rinse out with plenty of water. Remove contact lenses.
<b>If Swallowed</b>	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.
<b>Most Important Symptoms and Effects</b>	The most important known symptoms and effects are described in the labelling

## Section 5: Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.
<b>Special Hazards Arising From the Substance/Mixture</b>	Special hazards arising from the substance or mixture Carbon oxides Nitrogen oxides (NOx) Oxides of phosphorus Combustible. Fire may cause evolution of: Oxides of phosphorus, nitrogen oxides Development of hazardous combustion gases or vapours possible in the event of fire.
<b>Special PPE and/or Precautions for Firefighters</b>	In the event of fire, wear self-contained breathing apparatus. Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## Section 6: Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
<b>Methods and Materials Used for Containment</b>	Do not let product enter drains.
<b>Cleanup Procedures</b>	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	For precautions, see section 2.
<b>Conditions for Safe Storage</b>	Store in a well-closed container at 2 to 8°C.

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	Ingredients with workplace control parameters Contains no substances with occupational exposure limit values.
<b>Appropriate Engineering Controls</b>	Appropriate engineering controls Change contaminated clothing. Wash hands after working with substance.
<b>PPE - Eye/Face Protection</b>	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
<b>PPE - Skin Protection</b>	This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: <a href="http://www.kcl.de">www.kcl.de</a> ). Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break-through time: 480 min Material tested: KCL 741 Dermatrill® L This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: <a href="http://www.kcl.de">www.kcl.de</a> ). Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break-through time: 480 min Material tested: KCL 741 Dermatrill® L
<b>PPE - Body Protection</b>	This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: <a href="http://www.kcl.de">www.kcl.de</a> ). Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: KCL 741 Dermatrill® L This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: <a href="http://www.kcl.de">www.kcl.de</a> ). Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break-through time: 480 min Material tested: KCL 741 Dermatrill® L
<b>PPE - Respiratory Protection</b>	required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Form: solid; Color: white
<b>Upper/Lower Flammability or Explosive Limits</b>	No data available
<b>Odor</b>	odorless
<b>Vapor Pressure</b>	< 0.00004 hPa at ca. 25°C (ca. 77°F) - OECD Test Guideline 104
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	No data available
<b>pH</b>	No data available
<b>Relative Density</b>	ca. 1.6g/cm³ at 20°C (68°F) - OECD Test Guideline 109
<b>Melting Point/Freezing Point</b>	No data available
<b>Solubility</b>	Water solubility 1,000 g/l at 20°C (68°F) - OECD Test Guideline 105 - completely soluble
<b>Initial Boiling Point and Boiling Range</b>	No data available
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	No data available
<b>Flammability (Solid, Gas)</b>	The product is not flammable. - Flammability (solids)
<b>Partition Coefficient</b>	log Pow: < -4 at 20°C (68°F) - OECD Test Guideline 107 - Bioaccumulation is not expected.
<b>Auto-Ignition Temperature</b>	120°C (248°F)The substance or mixture is not classified as self-heating.
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available

## Section 10: Stability and Reactivity

<b>Reactivity</b>	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
<b>Chemical Stability</b>	The product is chemically stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	Violent reactions possible with: Strong oxidizing agents
<b>Conditions to Avoid</b>	No information available
<b>Incompatible Materials</b>	No data available
<b>Hazardous Decomposition Products</b>	In the event of fire: see section 5

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	Acute toxicity estimate Oral - 2,551 mg/kg (Calculation method) LD50 Oral - Rat - female - > 2,000 mg/kg (nicotinamide-adenine dinucleotide) (OECD Test Guideline 423)
<b>Acute Toxicity - Inhalation</b>	No data available
<b>Acute Toxicity - Dermal</b>	No data available
<b>Acute Toxicity - Eye</b>	Eyes - Rabbit (nicotinamide-adenine dinucleotide) Result: No eye irritation - 72 h (OECD Test Guideline 405)
<b>Skin Corrosion/Irritation</b>	Skin - Rabbit (nicotinamide-adenine dinucleotide) Result: No skin-irritant effect in animal experiments. - 4 h (OECD Test Guideline 404)
<b>Serious Eye Damage/Irritation</b>	Eyes - Rabbit (nicotinamide-adenine dinucleotide) Result: No eye irritation - 72 h (OECD Test Guideline 405)
<b>Respiratory or Skin Sensitization</b>	Maximization Test - Guinea pig (nicotinamide-adenine dinucleotide) Result: Not a skin sensitizer. (OECD Test Guideline 406)
<b>Germ Cell Mutagenicity</b>	Ames test (nicotinamide-adenine dinucleotide) S. typhimurium Result: negative
<b>Carcinogenicity IARC</b>	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>Carcinogenicity ACGIH</b>	No data available
<b>Carcinogenicity NTP</b>	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<b>Carcinogenicity OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
<b>Reproductive Toxicity</b>	No data available
<b>Specific Target Organ Toxicity - Single Exposure</b>	No data available
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	No data available
<b>Aspiration Hazard</b>	No data available (nicotinamide-adenine dinucleotide)

## Section 12: Ecological Information

<b>Toxicity</b>	Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (nicotinamide-adenine dinucleotide) (OECD Test Guideline 202) Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata - > 51 mg/l - 72 h (nicotinamide-adenine dinucleotide) (OECD Test Guideline 201) static test NOEC - Pseudokirchneriella subcapitata - ca. 51 mg/l - 72 h (nicotinamide-adenine dinucleotide) (OECD Test Guideline 201)
<b>Persistence and Degradability</b>	aerobic - Exposure time 28 d (nicotinamide-adenine dinucleotide) Result: 80 % - Readily biodegradable. (OECD Test Guideline 301B)
<b>Bio-accumulative Potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other Adverse Effects</b>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	Waste material must be disposed of in accordance with the national and loc No mixing with other waste. Handle uncleaned containers like the product See <a href="http://www.retrologistik.com">www.retrologistik.com</a> for processes regarding the return of chemicals and containers, or contact us there if you have further questions.
<b>Waste Treatment Methods Packaging</b>	Waste material must be disposed of in accordance with the national and loc No mixing with other waste. Handle uncleaned containers like the product See <a href="http://www.retrologistik.com">www.retrologistik.com</a> for processes regarding the return of chemicals and containers, or contact us there if you have further questions.
<b>Special Precautions Landfill or Incinerations</b>	No data available
<b>Other Information</b>	No data available

## Section 14: Transport Information

UN Number	Not dangerous goods.
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	N/A

## Section 15: Regulatory Information

SARA 302 Components - This material does not contain any components with a section 302 EHS TPQ. SARA 313 Components - This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. Massachusetts Right-To-Know Components - No components are subject to the Massachusetts Right-to-Know Act.

## Section 16: Other Information

Additional Information	N/A
Prepared By	Scarlotte Smith
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### Disclaimer

Letco Medical, LLC believes that the above information is 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. If the product is used as a component in another product, this information may not be applicable. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED ABOVE. Letco Medical shall not be held liable for any loss or damage resulting from handling, storage, use or from contact with the above product.