

**SECTION 1: IDENTIFICATION**

**PRODUCT NAME:** LC-NA  
**PRODUCT CODES:** LC-NA

**MANUFACTURER:** DeNovix Inc.  
**ADDRESS:** 3411 Silverside Road  
 Hanby Building 101  
 Wilmington, DE 19810

**PHONE INSIDE US:** 1-302-442-6911  
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**PRODUCT USE:** For research use only  
**PREPARED BY:** DeNovix Inc.

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS CLASSIFICATION** Aquatic Acute: Category 3  
 Eye irritation: Category 2A



**SIGNAL WORD** Warning

**HAZARD STATEMENTS**

- H319 Causes serious eye irritation
- H402 Harmful to aquatic life

**PRECAUTIONARY STATEMENTS**

- P305 + P351 + P338 **IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing**
- P273 Avoid release to the environment
- P280 Wear eye protection
- P313 + P337 May be harmful in contact with skin
- P501 Dispose of contents and container to comply with local, state, and federal regulations

**HMIS CLASSIFICATION:**

**HEALTH HAZARD** 1  
**FLAMMABILITY** 0  
**PHYSICAL HAZARDS** 0

**NFPA RATING:**



**HEALTH HAZARDS** 1  
**FIRE** 0  
**REACTIVITY HAZARDS** 0

**DeNovix Inc.**

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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**MIXTURE**

NAME	COMMON NAME	CHEMICAL FORMULA	CAS#	APPROXIMATE %
NICOTINIC ACID	NIACIN	C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	59-67-6	0.025
WATER	WATER	H <sub>2</sub> O	7732-18-5	99.975

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**SECTION 4: FIRST AID MEASURES**

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**GENERAL FIRST AID:**

Never give anything by mouth to an unconscious person. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**IF INHALED:**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician if irritation develops.

**IN CASE OF SKIN CONTACT**

Removed contaminated clothing and wash exposed skin with soap and plenty of water. Consult a physician if irritation develops.

**IN CASE OF EYE CONTACT:**

Rinse thoroughly with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician if irritation develops.

**IF SWALLOWED**

Rinse mouth with water. Do NOT induce vomiting. Consult a physician.

**IMPORTANT SYMPTOMS/EFFECTS ACUTE AND DELAYED**

Skin contact                      Causes skin irritation

Eye contact                        Causes eye irritation

**IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT**

No additional information

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**SECTION 5: FIRE-FIGHTING MEASURES**

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**SUITABLE EXTINGUISHING MEDIA**

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

**UNSUITABLE EXTINGUISHING MEDIA**

High pressure water stream

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS**

Wear self contained breathing apparatus for fire fighting if necessary.

**HAZARDOUS COMBUSTION PRODUCTS**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**PERSONAL PRECAUTIONS**

Use personal protective equipment. Safety glasses, gloves. Evacuate area of non-essential personnel. Eliminate ignition sources.

**ENVIRONMENTAL PRECAUTIONS**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

Clean up spill with inert absorbent material. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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**SECTION 7: HANDLING AND STORAGE**

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**PRECAUTIONS FOR SAFE HANDLING**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**CONDITIONS FOR SAFE STORAGE**

Keep container tightly closed in a dry and well-ventilated place. Light sensitive. Keep in a dry place.

**HYGIENE MEASURES**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**OTHER INFORMATION**

Do not eat, drink, or smoke when using this product.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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Contains no substances with occupational exposure limit values.

**APPROPRIATE ENGINEERING CONTROLS**

Maintain eye-wash fountain and quick drench facilities in work place.

**PERSONAL PROTECTIVE EQUIPMENT**

**RESPIRATORY PROTECTION**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**HAND 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.

**EYE PROTECTION**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**SKIN AND BODY PROTECTION**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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<b>APPEARANCE:</b>	Colorless liquid
<b>ODOR:</b>	Odorless
<b>ODOR THRESHOLD:</b>	No information available
<b>pH:</b>	3.4 at 10 g/l at 20 ° C (68 ° F)
<b>BOILING POINT:</b>	100 ° C (water) 212 ° F (water)
<b>FREEZING POINT:</b>	0.0 ° C 32.0 ° F
<b>FLASH POINT:</b>	No information available
<b>EVAPORATION RATE:</b>	No information available
<b>FLAMABILITY:</b>	No information available
<b>UPPER/LOWER FLAMABILITY LIMIT:</b>	No information available
<b>VAPOR PRESSURE:</b>	No information available
<b>VAPOR DENSITY:</b>	No information available
<b>SPECIFIC GRAVITY:</b>	1.0 (water)
<b>SOLUBILITY IN WATER:</b>	Soluble
<b>PARTITION COEFFICIENT N-OCTANOL/WATER:</b>	No information available
<b>AUTOIGNITION TEMPERATURE:</b>	No information available
<b>DECOMPOSITION TEMPERATURE:</b>	No information available
<b>VISCOSITY:</b>	No information available
<b>PHYSICAL STATE:</b>	Liquid

**SECTION 10: STABILITY AND REACTIVITY**

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**STABILITY:** Stable at ambient temperature.**REACTIVITY:** No information available**INCOMPATIBILITY:** Strong oxidizing agents**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:**

Hazardous decomposition products formed under fire conditions.- Carbon oxides, nitrogen oxides (NOx)

**CONDITIONS TO AVOID:** No information available**POSSIBLE HAZARDOUS REACTIONS:** No information available

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**SECTION 11: TOXICOLOGICAL INFORMATION****ACUTE TOXICITY** Not classified

		Nicotinic Acid (59-67-6)
LD50 ORAL RAT		7000 mg/kg
LD50 DERMAL RAT		>2000 mg/kg
LC50 INHALATION		No data available

**OTHER INFORMATION ON ACUTE TOXICITY**

LD50 Intraperitoneal – rat 730 mg/kg

LD50 Subcutaneous – rat 5,000 mg/kg

**SKIN CORROSION/IRRITATION**

SKIN – rabbit - No skin irritation 4 h - OECD Test Guideline 404

**SERIOUS EYE DAMAGE/EYE IRRITATION**

Eyes – rabbit - Moderate eye irritation - OECD Test Guideline 405

**RESPIRATORY OR SKIN SENSITIZATION**

Maximization Test - guinea pig - OECD Test Guideline 406 Did not cause sensitization on laboratory animals.

**GERM CELL MUTAGENICITY**Genotoxicity in vitro - Ames test - *S. typhimurium* - negative

Genotoxicity in vitro - Chromosome aberration test in vitro - Other cell types - negative

**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.**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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## OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

REPRODUCTIVE TOXICITY No data available

TERATOGENICITY No data available

SPECIFIC TARGET ORGAN TOXICITY - single exposure (Globally Harmonized System)

No data available

SPECIFIC TARGET ORGAN TOXICITY - repeated exposure (Globally Harmonized System)

No data available

ASPIRATION HAZARD No data available

## POTENTIAL HEALTH EFFECTS

INHALATION May be harmful if inhaled. Causes respiratory tract irritation.

INGESTION May be harmful if swallowed.

SKIN May be harmful if absorbed through skin. Causes skin irritation.

EYES Causes eye irritation.

## SIGNS AND SYMPTOMS OF EXPOSURE

Reversible liver enzyme abnormalities.

SYNERGISTIC EFFECTS No data available

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## SECTION 12: ECOLOGICAL INFORMATION

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### TOXICITY

FISH Mortality LC50 - *Oncorhynchus mykiss* (rainbow trout) - 520 mg/l - 96 h Method: OECD Test Guideline 203

DAPHNIA Immobilization EC50 - *Daphnia magna* (Water flea) - 77 mg/l - 48 h Method: DIN 38412

TOXICITY TO ALGAE Growth inhibition IC50 - *Desmodesmus subspicatus* (green algae) - 90 mg/l - 72 h Method: OECD Test Guideline 201

TOXICITY TO BACTERIA Growth inhibition IC50 - *Pseudomonas putida* - 120 mg/l - 72 h

### PERSISTENCE AND DEGRADABILITY

BIODEGRADABILITY Biotic/Aerobic – Result : 100 % - Readily biodegradable.

BIOACCUMULATIVE POTENTIAL No data available

MOBILITY IN SOIL No data available

### PBT and vPvB ASSESSMENT

No data available

**OTHER ADVERSE EFFECTS**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

No data available

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:**

**PRODUCT:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**CONTAMINATED PACKAGING:**

Dispose of as unused product.

**OTHER INFORMATION:** Avoid release to the surrounding environment

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**SECTION 14: TRANSPORT INFORMATION**

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**UN NUMBER:** NOT APPLICABLE

**UN SHIPPING NAME:** NOT APPLICABLE

**TRANSPORT HAZARD CLASS:** NOT APPLICABLE

**PACKING GROUP:** NOT APPLICABLE

**ENVIRONMENTAL HAZARDS:** NOT APPLICABLE

**TRANSPORT IN BULK:** NOT APPLICABLE

**OTHER PRECAUTIONS:** NOT APPLICABLE

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**SECTION 15: REGULATORY INFORMATION**

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**OSHA HAZARDS** Irritant

**SARA 302 COMPONENTS** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 COMPONENTS** SARA 313: 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.

**SARA 311/312 HAZARDS** Acute Health Hazard

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS**

No components are subject to the Massachusetts Right to Know Act.

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS**

Nicotinic acid CAS-NO. 59-67-6  
Water CAS NO. 7732-18-5

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## NEW JERSEY RIGHT TO KNOW COMPONENTS

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Water CAS NO. 7732-18-5

## CALIFORNIA PROP. 65 COMPONENTS

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## SECTION 16: OTHER INFORMATION

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### DISCLAIMER:

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. DeNovix Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.