#### MATERIAL SAFETY DATA SHEET

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Version 1.5

## Section 1 - Product and Company Information

Product Name NICOTINIC ACID, 98%

Product Number N7850 Brand ALDRICH

Company Sigma-Aldrich

Street Address 3050 Spruce Street

City, State, Zip, Country SAINT LOUIS MO 63103 US

Technical Phone: 314 771 5765

414 273 3850 Ext. 5996 Emergency Phone:

800 325 5052 Fax:

## Section 2 - Composition/Information on Ingredient

CAS # SARA 313 Substance Name 59-67-6 NICOTINIC ACID No

Formula C6H5N02

Synonyms Acide nicotinique (French) \* Acidum nicotinicum \*

Akotin \* Anti-pellagra vitamin \* Apelagrin \* Bionic \* 3-Carboxypyridine \* Daskil \* Davitamon PP \* Direktan \* Efacin \* Kyselina nikotinova (Czech) \* NAH \* Niacin \* Nicacid \* Nicangin \* NICO \* Nico-400 \* Nicobid \* Nicocap \* Nicocidin \* Nicocrisina \* Nicodan \* Nicodelmine \* Nicolar \* Niconacid \* Niconat \* Niconazid \* Nicosan 3 \* Nico-span \* Nicosyl \* Nicotamin \* Nicotene \*

Nicotil \* Nicotine acid \* Nicotinipca \*

Nicotinoylhydrazine \* Nicotinsaure (German) \* Nicovasan \* Nicovasen \* Nicyl \* Nipellen \* Pellagramin \* Pellagra preventive factor \*

Pellagrin \* Pelonin \* Peviton \* PP factor \* P.P.

factor-pellagra preventive factor \*

Pyridine-3-carbonic acid \* Pyridine-beta-carboxylic acid \*

Pyridine-3-carboxylic acid \* 3-Pyridinecarboxylic

acid \* Pyridine-carboxylique-3 (French) \* S115 \* SK-Niacin \* SR 4390 \* Tinic \* Vitaplex N \*

Wampocap

RTECS Number: QT0525000

# Section 3 - Hazards Identification

# EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin.

# HMIS RATING

HEALTH: 2

FLAMMABILITY: 0 REACTIVITY: 0

#### NFPA RATING

HEALTH: 2

FLAMMABILITY: 0
REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

## Section 4 - First Aid Measures

### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

### DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

#### EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

## Section 5 - Fire Fighting Measures

### FLASH POINT

379.4 °F 193 °C Method: closed cup

### EXPLOSION LIMITS

Lower: 25 %

#### AUTOIGNITION TEMP

N/A

## FLAMMABILITY

N/A

## EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

## Section 6 - Accidental Release Measures

### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

## METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## Section 7 - Handling and Storage

## HANDLING

User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### **STORAGE**

Suitable: Keep tightly closed.

# Section 8 - Exposure Controls / PPE

### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

## PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Government approved respirator. Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

## GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

# Section 9 - Physical/Chemical Properties

Appearance	Physical State: Color: White Form: Powder	Solid
Property	Value	At Temperature or Pressure
Molecular Weight	123.11 AMU	
Hq	3.4	
BP/BP Range	N/A	
MP/MP Range	234 °C	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
SG/Density	1.473  g/cm3	
Bulk Density	500 - 700 kg/l	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	Log Kow: $-0.59$	25 °C
Decomposition Temp.	N/A	
Flash Point	379.4 °F 193 °C	Method: closed cup
Explosion Limits	Lower: 25 %	
Flammability	N/A	
Autoignition Temp	N/A	
Refractive Index	N/A	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility	Solubility in Water:15 mg/ml H2O Solvent: Slightly. Soluble.	

Other Solvents: ETHER

### N/A = not available

Section 10 - Stability and Reactivity

#### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

## Section 11 - Toxicological Information

### ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: Material is irritating to mucous membranes and upper

respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

## SIGNS AND SYMPTOMS OF EXPOSURE

Overexposure to nicotinic acid can produce a powerful peripheral vasodilating action. This effect is seen as an intense flushing of the skin and occurs about 15 to 60 minutes after exposure. It is accompanied by a sense of warmth, tingling, and itching of the skin and subsides gradually over a period of 15 to 30 minutes. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### CONDITIONS AGGRAVATED BY EXPOSURE

May produce reversible liver damage

### TOXICITY DATA

Oral

Rat

> 5,000 mg/kg

LD50

Skin

> 2,000 mg/kg

LD50

Oral

Rat

7000 mg/kg

LD50

Intraperitoneal

730 MG/KG

LD50

Subcutaneous

Rat

5 GM/KG

LD50

Oral

Mouse

3720 mg/kg

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LD50
   Remarks: Behavioral: Change in motor activity (specific assay).
   Lungs, Thorax, or Respiration:Other changes.
   Intraperitoneal
   Mouse
   358 MG/KG
   LD50
   Subcutaneous
   Mouse
   3500 MG/KG
   LD50
   Intravenous
  Mouse
   5 GM/KG
   LD50
   Oral
   Rabbit
   4550 mg/kg
   LD50
IRRITATION DATA
  Eyes
   Rabbit
   4 HR
   Remarks: Moderate irritation effect
   Skin
   Rabbit
   4 HR.
   Remarks: No irritation effect
Section 12 - Ecological Information
ACUTE ECOTOXICITY TESTS
   Test Type: LC50 Fish
   Species: Onchorhynchus mykiss (Rainbow trout)
   Time: 96 h
   Value: 520 mg/l
   Test Type: EC50 Daphnia
   Species: Daphnia magna
   Time: 48 h
   Value: 77 mg/l
   Test Type: EC50 Algae
   Species: Scenedesmus subspicatus
   Time: 96 h
   Value: 68 mg/l
   Test Type: EC50 Algae
   Species: other microorganisms
   Time: 16 h
   Value: 120 mg/l
   Test Type: EC50 Algae
   Species: Scenedesmus subspicatus
```

Time: 72 h Value: 90 mg/l

## Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

### DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

#### IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

## Section 15 - Regulatory Information

### EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xi

Indication of Danger: Irritant.

R: 36/37/38

Risk Statements: Irritating to eyes, respiratory system and skin.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

# US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Irritant.

Risk Statements: Irritating to eyes, respiratory system and skin. Safety Statements: In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No.

TSCA INVENTORY ITEM: Yes

# CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes NDSL: No

### Section 16 - Other Information

# DISCLAIMER

For R&D use only. Not for drug, household or other uses.

# WARRANTY

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

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