

MATERIAL SAFETY DATA SHEET

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Version 1.2

Section 1 - Product and Company Information

Product Name NIACINAMIDE USP
Product Number N5535
Brand SIGMA

Company Sigma-Aldrich Canada, Ltd
Street Address 2149 Winston Park Drive
City, State, Zip, Country Oakville ON L6H 6J8 CA
Technical Phone: 9058299500
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Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313 No
NIACINAMIDE USP	98-92-0	No

Formula C₆H₆N₂O

Synonyms Acid amide * Amide PP * Amid kyseliny nikotinove (Czech) * Aminicotin * m-(Aminocarbonyl)pyridine * Amixicotyn * Amnicotin * Austrovit PP * Benicot * 3-Carbamoylpyridine * Delonin amide * Dipeglyl * Endobion * Factor PP * Hansamid * Inovitan PP * NAM * Niacevit * Niacinamide * Niavit PP * Nicamindon * Nicasir * Nicobion * Nicofort * Nicogen * Nicomidol * Nicosan 2 * Nicotamide * Nicotilamide * Nicotinic acid amide * Nicotinic amide * Nicotinsaureamid (German) * Nicotylamide * Nicovit * Nicovitol * Nicozymin * Niko-Tamin * Nikotinsaureamid (German) * Niocinamide * Niozymin * Pelmine * Pelonin amide * PP-Faktor * Pyridine-3-carboxylic acid amide * 3-Pyridinecarboxamide * 3-Pyridinecarboxylic acid amide * Savacotyl * VI-Nicotyl * Vitamin B * Vitamin B3 * Vitamin PP * Witamina PP

RTECS Number: QS3675000

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Irritant.

Irritating to eyes, respiratory system and skin.

Target organ(s): Eyes. Kidneys.

HMIS RATING

HEALTH: 2*

FLAMMABILITY: 0

REACTIVITY: 0

NFPA RATING

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 0

*additional chronic hazards present.

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

302 °F 150 °C Method: closed cup

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: Solid	
	Color: White	
	Form: Fine crystals	
Property	Value	At Temperature or Pressure
Molecular Weight	122.13 AMU	
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	128 °C	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
SG/Density	N/A	
Bulk Density	N/A	
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	N/A	
Decomposition Temp.	N/A	
Flash Point	302 °F 150 °C	Method: closed cup
Explosion Limits	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Refractive Index	N/A	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

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.

TARGET ORGAN(S) OR SYSTEM(S)

Liver. Eyes. Kidneys.

SIGNS AND SYMPTOMS OF EXPOSURE

Other symptoms of exposure can include anorexia, excessive salivation, pupillary constriction, bronchoconstriction, respiratory failure, tightness of the chest, coma, pulmonary, ureter, and bladder effects. 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 Oral

Rat Rat

3500 mg/kg 3500 mg/kg

LD50 LD50

Subcutaneous Subcutaneous

Rat Rat

1680 MG/KG 1680 MG/KG

LD50 LD50

Remarks: Lungs, Thorax, or Respiration:Other changes. Lungs, Thorax, or Respiration:Other changes.

Oral Oral

Mouse Mouse

2500 mg/kg 2500 mg/kg

LD50 LD50

Intraperitoneal Intraperitoneal

Mouse Mouse

2050 MG/KG 2050 MG/KG

LD50 LD50

Subcutaneous Subcutaneous

Mouse Mouse

2 GM/KG 2 GM/KG

LD50 LD50

CHRONIC EXPOSURE - MUTAGEN

Species: Human Human

Dose: 10 MMOL/L 10 MMOL/L

Cell Type: lymphocyte lymphocyte
Mutation test: Sister chromatid exchange Sister chromatid exchange

Species: Rat Rat
Dose: 20 MMOL/L 20 MMOL/L
Cell Type: liver liver
Mutation test: DNA inhibition DNA inhibition

Species: Rat Rat
Dose: 25 MG/KG 25 MG/KG
Cell Type: ovary ovary
Mutation test: Body fluid assay Body fluid assay

Species: Hamster Hamster
Dose: 5 MMOL/L 5 MMOL/L
Cell Type: ovary ovary
Mutation test: Sister chromatid exchange Sister chromatid exchange

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

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.
S: 26 36
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 gloves and eye/face protection.
US Statements: Target organ(s): Eyes. Kidneys.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes 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 or manufacturing use. Not for prescription compound or other uses.