



State of the Art Ingredients • Fast Friendly Service

Niacinamide

SECTION 1 :: PRODUCT IDENTIFICATION

EMERGENCY TELEPHONE:

CHEMTREC
PROSAR

1-800-424-9300 (Spill Related Emergency)
1-800-241-7439 (Health Related Emergency)

SECTION 2 :: DATA ON COMPONENTS

INCI: Niacinamide

Synonym: Nicotinamide, Vitamin B, Vitamin B3, Vitamin PP, VI-Nicotyl, NAM, Acid Amide,

CAS No: 98-92-0

EEC No: 202-713-4

Molecular Formula: $C_6H_6N_2O$

SECTION 3 :: HAZARDS IDENTIFICATION

Irritant

Eyes, Respiratory, Skin

Target Organ

Eyes, Kidneys

HMIS Rating

Health: 2 *

Flammability: 0

Reactivity: 0

NEPE 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 if conscious. Contact 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.

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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, appropriate foam.

FIREFIGHTING

Protective Equipment: Self-contained breathing apparatus, protective clothing, eye protection.

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

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

Tightly sealed. Protect from heat, freezing.

SECTION 8 :: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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.

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SECTION 9 :: PHYSICAL AND 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	
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

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SECTION 11 :: TOXICOLOGY 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

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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 :: ECOLOGY 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

ADR : Not dangerous goods

RID : Not dangerous goods

IATA Cargo : Not dangerous goods

IATA Passenger : Not dangerous goods

IMDG-Code : Not dangerous goods

SECTION 15 :: REGULATIONS

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.

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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 :: COMMENTS

Disclaimer

DISCLAIMER

Technical information and / or suggestions for use including any formulations and / or procedures are believed to be correct. However this does not constitute a guarantee of the accuracy of the information or suggestions contained herein and confirming tests in your own laboratory and / or facility are recommended.

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(MSDS)
MATERIAL SAFETY DATA SHEET

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