# Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

## Section 1: Identification

**Product Name** Niacinamide USP
**Commercial Name** Not available.
**Product Use** Food additive.
**Restrictions On Use** Not available.

**Product Code** 30-1689

**Company**
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
**CHEMTREC (24hr) 1-800-424-9300**

## Section 2: Hazard(s) Identification

**OSHA Haz Com: CFR 1910.1200** Serious Eye Damage/Eye Irritation, Category 2A

**Signal Word** WARNING

**Hazard Statement(s)** Causes serious eye Irritation.

**Pictogram(s) or Symbol(s)**

**Precautionary Statement(s):**

**Prevention** Wash thoroughly after handling. Wear eye protection/face protection.
**Response** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
**Storage** Not available
**Disposal** Not available.

## Section 3: Composition/Information on Ingredients

**Substance/Mixture** Substance
**Components** Nicotinamide
**% By Weight** 100
**CAS#** 98-92-0
**Molecular Weight** 122.13 g/mole
**Chemical Formula** C6H6N2O
**Synonym(s)** 3-Pyridinecarboxamide, Niacinamide. Nicotinamide 3-Carbamoylpyridine, 3-Pyridinecarboxamide, Vitamin B, beta-Pyridinecarboxamide m-(Aminocarbonyl)pyridine

**Mixtures**

| Name | CAS# | % by Weight | TLV/PEL | LC50/LD50 |
|---|---|---|---|---|
| Nicotinamide | 98-92-0 | 100 | Not available. | ORAL (LD50):Acute: 2500mg/kg [Mouse].3500 mg/kg[Rat]. |

## Section 4: First-Aid Measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin Contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists.

**Eye Contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

**Symptoms/Effects**

**Acute** Irritation of eyes and mucous membranes.

**Delayed** Irritation of eyes and mucous membranes.

**Immediate Medical Attention**

Treat symptomatically.

## Section 5: Fire-Fighting Measures

**Suitable Extinguishing Media**

Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable Extinguishing Media**

Not available.

**Products of Combustion**

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

**Firefighters Special Equipment and Precautions**

Wear suitable protective equipment. Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

## Section 6: Accidental Release Measures

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Ensure adequate ventilation. For personal protection, see section 8 of the SDS. Wear appropriate protective equipment and clothing during clean-up. Methods and materials for containment and cleaning up: Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

## Section 7: Handling and Storage

Handling: As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Combustible dust clouds may be created where operations produce fine material (dust). Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential. Storage: Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

## Section 8: Exposure Controls/Personal Protection

**Exposure Limits** Not available.

**Engineering Controls** For laboratory operations, use good technique and limit open handling. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.

| | |
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| **Personal Protection** | Eye/face protection: Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available. Skin protection Hand protection: Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. Other: Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. Respiratory protection: Respirators are generally not required for laboratory operations. Choose respiratory protection appropriate to the task and the level of existing engineering controls. Thermal hazards: Wear appropriate thermal protective clothing, when necessary. General hygiene considerations: Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment. |

## Section 9: Physical and Chemical Properties

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| **Appearance** | White solid powder |
| **Odor** | Odorless |
| **Odor Threshold** | Not available. |

| | | | |
|---|---|---|---|
| **Melting Point** | 262.4 - 267.8 °F (128 - 131 ° | **pH** | Not available. |
| **Freezing Point** | Not available. | **Vapor Pressure** | 31.4 hPa at 25 ° C |
| **Boiling Point/Range** | 314.6 °F (157 °C) | **Vapor Density** | Not available. |
| **Decomposition temperature** | >140 C | **Viscosity** | Not applicable. |
| **Partition Coefficient: n-octanol/water** | -.037 | **Evaporation Rate** | Not available. |
| **Flash Point** | 182°C | **Autoignition temperature** | 480 C |
| **Flammability** | Not available. | **Flammability or Explosive Limits:** | |
| | | **Lower** | Not available. |
| | | **Upper** | Not available. |

| | |
|---|---|
| **Solubility(ies)** | Freely soluable in water. |
| **Other** | Butanol: Freely soluble. Chloroform: Slightly soluble. Ethanol: Freely soluble. Ether: Slightly soluble. Chemical family Pyridine derivative. Molecular formula C6-H6-N2-O Molecular weight 122.13 g/mol |

## Section 10: Stability and Reactivity

| | |
|---|---|
| **Reactivity** | The product is stable and non-reactive under normal conditions of use, storage and transport |
| **Chemical Stability** | Material is stable under normal conditions. |
| **Hazardous Polymerization** | No dangerous reaction known under conditions of normal use |
| **Conditions to Avoid** | Contact with incompatible materials |
| **Incompatible Materials** | Strong oxidizing agents. Strong acids. Strong bases. Mineral acids. Alkalies. |
| **Hazardous Decomposition Products** | NOx. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions |

## Section 11: Toxicological Information

**RTECS** QS3675000

**Acute Toxicity**
Acute Dermal: LD50 Rabbit > 2000 mg/kg Acute Oral: LD50 Rat > 2500 mg/kg

**Skin Corrosion/Irritation**
Not available.

**Serious Eye Damage/Irritation**
Causes serious eye irritation.

**Respiratory or Skin Sensitization**
Not available.

**Germ Cell Mutagenicity**
Not available.

**Carcinogenicity**
Not available.

**Reproductive Toxicity**
Not available.

**Routes of Entry**
Eye contact.

**Symptoms Related to Exposure**
Gastrointestinal disturbances. Jaundice. Fainting. Headache. Dry eyes. Dry skin. Increased urination. Thirst. Joint pain. Back pain. Muscle pain. Swelling of feet or lower legs. Fever. Itching. Tiredness. Changes in heart rate.

**Potential Health Effects**
Not available.

**Target Organ(s)** Not available.

## Section 12: Ecological Information

**Ecotoxicity**
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistance and Degradability**
Readily biodegradable

**Bioaccumulative Potential**
Octanol/water partition coefficient log Kow -0.37

**Mobility in Soil**
Not available.

**Other Adverse Effects**
Not available.

## Section 13: Disposal Considerations

**Waste Disposal**
Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

**Disposal of Container**
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner

**Other Considerations**
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## Section 14: Transport Information

**DOT Classification**
Not a DOT controlled material (United States). Not dangerous goods (IATA, IMDG, ADR, RID, TDG). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

## Section 15: Regulatory Information

**Regulations**
US federal regulations TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) Not regulated. SARA 302 Extremely hazardous substance Superfund Amendments and Reauthorization Act of 1986 (SARA) Not listed. YesSARA 311/312 Hazardous chemical Serious eye damage or eye irritationClassified hazard categories SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Not regulated.Safe Drinking Water Act (SDWA) Total food additive Direct food additive GRAS food additive US state regulations California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

**Other**
Not available.

## Section 16: Other Information

H319: Causes serious eye irriation; R36: Irritating to eyes. Changes since the last version are highlighted in the margin. This version replaces all previous versions. The information provided in this Safety Data Sheet is correct ta:the; best of our knowledge, information and belief at the date of its publication. The information given is designed -only as a guidance for safe handling, use, processing, storage, transportation. disposal and release and is not to be considered a warranty or quality.specification. The information relates only to the. specific material designated and may not be valid for such mated an eambiry tk0on wlih any other materials or in any process, uniess?specified in,the text: