

## Safety Data Sheet Niacinamide (Vitamin B3)

March 31st, 2023

### Section 1: Chemical Product and Company Identification

<b>Product name:</b>	Niacinamide (Vitamin B3)
<b>Contact Info:</b>	Bramble Berry Inc. 2138 Humboldt Street Bellingham, WA 98225 info@brambleberry.com www.brambleberry.com 1-877-627-7883
<b>Emergency Phone Number:</b>	Within USA & Canada: 1.800.424.9300 CCN693143 Outside USA & Canada: +1.703.527.3887 (collect calls accepted)
<b>CAS-No:</b>	98-92-0
<b>Recommended Use:</b>	Nutritional Supplement
<b>EC:</b>	202-713-4
<b>Synonyms:</b>	3-Pyridinecarboxamide, Niacinamide, Nicotinamide, 3-Carbamoylpyridine, 3-Pyridinecarboxamide, Vitamin B, beta-Pyridinecarboxamidem-(Aminocarbonyl)pyridine
<b>Systematic Name:</b>	3-Pyridinecarboxamide
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O

### Section 2: Hazards Identification

#### 2.1 Classification of the substance or mixture

##### Classification according to GHS

Serious eye damage/eye irritation      Category 2A

#### 2.2 Label elements

Hazard pictogram: GHS 07



Signal Word: Warning



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### Hazard statements

H319 Causes serious eye irritation

### Precautionary Statements

P264 Wash hands, eyes, and face thoroughly after handling  
P280 Wear protective gloves/clothing and eye/face protection  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 If eye irritation persists, get medical advice/attention  
P405 Store locked up  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations

## Section 3: Composition/Information on Ingredients

This product is a complex mixture of ingredients, which contains among others the following substance(s), presenting a health or environmental hazard within the meaning of the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS):

Chemical Name	CAS#	Purity	GHS-US Classification
Niacinamide	98-92-0	~100%	Serious eye damage/eye irritation: Category 2A

## Section 4: First Aid Measures

### 4.1 Description of first aid measures

#### Key symptoms

**Acute effects:** In contact with eyes, it causes serious eye irritation and redness of eyes.

**Chronic effects:** Affects the kidneys, eyes, and liver.

#### First Aid:

**Eye Exposure:** Flush immediately with water for at least 15 minutes. Remove contact lenses if it is easy to do so. Contact physician if symptoms persist. Continue rinsing

**Skin Exposure:** Remove contaminated clothes. Wash thoroughly with water for at least 15 minutes. Wash contaminated clothes before reuse. Seek immediate medical attention

**Inhalation:** Remove to fresh air and keep at rest in a comfortable position for breathing. Call a physician if you feel unwell. Monitor for respiratory distress. Apply artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Toxic vapors may be released on thermal decomposition including nitrogen oxides, carbon monoxide



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and cyanide.

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**Ingestion:** If swallowed, call a poison center if you feel unwell. Rinse mouth. DO NOT induce vomiting by use of emetics. Seek medical attention.

## Section 5: Fire-Fighting Measures

### Extinguishing media

**Appropriate extinguishing media:** Dry chemical powder, carbon dioxide, and alcohol resistant foam. Water may be ineffective. Water sprays can be effective in cooling down the fire exposed containers and knocking down the vapors. Water jets may be used to flush spills away and dilute the same to non-flammable mixtures fog or alcohol-resistant foam by directing streams to the periphery of the fires to prevent spread. Do not permit water to get inside of containers.

**Special protective equipment and precautions for fire fighters:** Evacuate the area and fight fires from a safe distance. If tank, rail car, or tank truck is involved in a fire, ISOLATE for 800m in all directions; also, consider initial evacuation for 800m in all directions or as per locally valid procedures. Fire fighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing. The chemical is harmful in contact with skin. Report any run-off water fires contaminated with this chemical as per local and federal procedures applicable.

**Unusual fire and explosion hazard:** Toxic vapors may be released on thermal decomposition including nitrogen oxides, carbon monoxide and cyanide. High vapor concentration may result in explosion hazard. Vapors are heavier than air. May travel considerable distance from source and flashback.

## Section 6: Accidental Release Measures

**Minor Spills:** Clean up all spills immediately following relevant standard operating procedures. Avoid breathing vapors and contact with skin and eyes. Shut off the leak source and all sources of ignition if possible. Wear protective clothing, boots, impervious gloves and safety glasses. Wipe up. Decontaminate all equipment. Use non-sparking tools.

**Major Spills:** Alert emergency personnel and tell them the location and nature of the hazard. Shut off all sources of ignition and increase ventilation. Wear appropriate clothing, full boot, impervious gloves, safety glasses and Self Contained Breathing Apparatus (SCBA), as may be deemed appropriate. Clear personnel and move upwind. Stop leaks if possible. Prevent, by any means available, spillage from entering drains or water and watercourses. Collect recoverable products into labeled containers for recycling, recovery or disposal. Contain spill with sand, earth, or vermiculite. Spread area with lime or absorbent material, and leave for at least 1 hour before washing. Clean up all tools and equipment. Inform authorities in event of contamination of any public sewers, drains and water bodies.

## Section 7: Handling and Storage

### Precautions for safe handling

Do not breathe vapor or mist. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Ground and secure containers when dispensing or pouring product. Avoid contact with incompatible materials. When handling, do not eat, drink or smoke. Launder contaminated clothing before reuse. If on skin or hair, immediately remove all contaminated clothing and rinse/shower with plenty of



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water. Use in a well ventilated place, use protective clothing commensurate with exposure levels. Use non-sparking tools.

### Storage

Store in a cool, well ventilated place. Store in a flameproof area away from incompatible materials. Keep only in the original container and keep securely closed when not in use.

## Section 8: Exposure Controls/Personal Protection

### Control parameters

**Exposure Limits:** Contains no substances with ACGIH, NIOSH, or OSHA exposure limit values.

**Exposure Limits (International): OEL- Russia:** STEL 1mg/m<sup>3</sup>

### Exposure Controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below respective occupational exposure limits. Local ventilation is usually preferred. Ensure that eyewash stations and safety showers are close to the workstation.

**Personal Protection:** Protective clothing should be selected specifically for the workplace depending on the concentration and quantity of the hazardous substances handled. The resistance of the protective clothing should be ascertained with the respective supplier.

**Eyes:** Safety goggles/ chemical safety glasses and face shield.

**Clothing:** Boots and appropriate clothing to prevent contact.

**Respirator:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary. For emergency situations, wear a positive pressure, pressure-demand, full face piece self-contained breathing apparatus (SCBA) or pressure-demand supplied air respirator with escape SCBA and fully-encapsulating, chemical resistant suit.

### Hand protection:

#### In full contact:

Glove material: Nitrile rubber

Layer thickness: 0.11mm

Breakthrough time: >480 Min.

#### In splash contact:

Glove material: Nitrile rubber

Layer thickness: 0.11mm

Breakthrough time: >480mm

## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

**Appearance:** White crystalline powder

**Odor:** Odorless

**Odor Threshold:** Not available.

**Color:** White



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**Boiling Point:** 157°C @ 0.0005mmHg

**Melting Point:** 128-131°C

**Flashpoint (CCCFP):** 182°C

**Auto-ignition temperature:** 480°C

**Evaporation rate:** Not available

**Explosive Properties:** Not available

**Oxidizer:** No

**Vapor Pressure (mmHg@25°C):** 0.00042

**Specific Gravity @ 25°C:** 1.400

**Density @ 25°C:** 1.1260

**Refractive Index @ 20°C:** 1.5650

**Solubility:** Freely soluble in water and alcohol. Soluble in glycerin.

**pH:** 5.35 to 5.5

**Log Kow:** -0.37

**Decomposition temperature:** >140°C

**Bulk density:** ~360 Kg/m<sup>3</sup>

**Molecular weight:** 122.12

**pKa:** 3.35

**Koc:** 51.56 (estimated)

**Flammable:** No

**Pyrophoric material:** No

## Section 10: Stability and Reactivity

<b>Reactivity</b>	It is a crystalline white solid. It is odorless and soluble in water
<b>Chemical stability</b>	Stable under normal conditions and temperatures.
<b>Possibility of hazardous reactions</b>	None known
<b>Conditions to avoid</b>	Dust generation.
<b>Incompatible materials</b>	Strong oxidizing agents, strong acids, and alkalis
<b>Hazardous decomposition products</b>	Burning may produce hazardous combustion gases like nitrogen oxides, carbon monoxide, and carbon dioxide.

## Section 11: Toxicological Information

### 11.1 Toxicological Effects

Acute Toxicity Estimates (ATEs) based on the individual Ingredient Toxicity Data utilizing the "Additivity Formula"

<b>Acute toxicity - Oral - (Rat) mg/kg</b>	(LD50: 1345.8536) Harmful if swallowed
<b>Acute toxicity - Dermal - (Rabbit) mg/kg</b>	Patch test - non-irritating.
<b>Acute toxicity - Inhalation - (Rat) mg/L/4hr</b>	(LD50: 275.6396) May be harmful if inhaled
<b>Skin corrosion / irritation:</b>	Non-irritating to the skin.
<b>Serious eye damage / irritation:</b>	Causes serious eye irritation



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<b>Respiratory sensitization:</b>	Not sensitizing.
<b>Skin sensitization:</b>	Causes marginal skin irritation on long exposure.
<b>Germ cell mutagenicity:</b>	Non-mutagenic.
<b>Carcinogenicity:</b>	Not a carcinogen.
<b>Reproductive toxicity:</b>	No reproductive or developmental toxicity.
<b>Specific target organ toxicity - single exposure:</b>	No data available
<b>Specific target organ toxicity - repeated exposure:</b>	Affects the kidneys, eyes, and liver, all findings reversible.
<b>Aspiration hazard:</b>	No data available.

## Section 12: Ecological Information

### 12.1 Toxicity

**Fish toxicity:** *P.reticulata* C<sub>50</sub>: 4200 mg/l/96hr

**Daphnia magna EC50:** >1000 mg/L/24hr

**Algal toxicity:** *Desmodesmus subspicatus* NOEC: 560 mg/l/72hr

**12.2 Persistence and degradability:** Readily biodegradable.

**12.3 Bioaccumulative potential:** Low bioaccumulative potential.

**12.4 Mobility in soil:** No data available.

## Section 13: Disposal Conditions

### 13.1 Waste treatment methods

Burn in a chemical incinerator equipped with an afterburner and scrubber. Exert extra care in igniting, as this material is combustible. Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state and local laws. Note that disposal regulations may also apply to empty containers and equipment reinstates.

## Section 14: Transport Information

**Not expected to be a marine pollutant.**

Regulator	Class	Pack Group	Sub Risk	UN-nr.
U.S. DOT (Non-Bulk)	Not Regulated – Not Dangerous Goods			
ADR/RID (International Road/Rail)	Not Regulated – Not Dangerous Goods			
IATA (Air Cargo)	Not Regulated – Not Dangerous Goods			
IMDG (Sea)	Not Regulated – Not Dangerous Goods			



## Section 15: Regulatory Information

### U.S. Federal Regulations:

**TSCA (Toxic Substance Control Act):** All components of the substance/mixture are listed or exempt.

**40 CFR (EPCRA, SARA, CERCLA and CAA):** This product contains NO components of concern.

### U.S. State Regulations:

**California Proposition 65 Warning:** No warning required

### Canadian Regulations:

**DSL / NDSL:** 100.00% of the components are listed or exempt.

## Section 16: Other Information

### GHS H-Statements referred to under section 3

H303 : May be harmful if swallowed

H315 : Causes skin irritation

H401 : Toxic to aquatic life

H313 : May be harmful in contact with skin

H316 : Causes mild skin irritation

H402 : Harmful to aquatic life

### Total Fractional Values

#### (TFV) Risk

(30.10) Aquatic Chronic Toxicity, Category 3

(8.20) Sensitization, Skin, Category 1B

(3.01) Aquatic Acute Toxicity, Category 1

(1.49) Acute Toxicity Oral, Category 4

#### (TFV) Risk

(18.14) Acute Toxicity Inhalation, Category 5

(3.02) Aquatic Chronic Toxicity, Category 4

(3.01) Aquatic Chronic Toxicity, Category 2

(1.13) Acute Toxicity Dermal, Category 4

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