

Vitamin B3 (Niacinamide) PC


Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
March 26, 2012 / Rules and Regulation

Revision Date: 15-Feb-2024
Supersedes: 29-Jan-2024

1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Vitamin B3 (Niacinamide) PC	Distributor:	MakingCosmetics Inc.
Synonyms:	Nicotinic acid amine, Vitamin PP	Address:	10800 231 st Way NE Redmond, WA 98053 (USA)
INCI Name:	Niacinamide	Phone / Fax:	425-292-9502 / 425-292-9601
CAS Number:	98-92-0	Web:	www.makingcosmetics.com
Formula:	C ₆ H ₆ N ₂ O	Emergency Telephone Number:	1-800-424-9300 (Chemtrec)
Product Form:	Solid		
Product Use:	Cosmetic use		

2 HAZARDS IDENTIFICATION

GHS Classification:	Eye irritation: Category 2A												
GHS Labeling:	Warning												
GHS Hazard Pictograms:													
GHS Hazard Statements:	May form combustible dust concentrations in air. H319: Causes serious eye irritation												
GHS Precautionary Statements:	P264: Wash skin thoroughly after handling. P280: Wear eye protection/face protection. P305 + P351 + P338IF 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.												
Potential Health Hazards:	Eyes: May cause eye irritation Inhalation: May cause respiratory irritation Skin: May cause skin irritation in susceptible persons. Ingestion: May cause irritation.												
NFPA Ratings (704):	<table border="0"> <tr> <td>Health</td> <td>2</td> <td>Moderate</td> </tr> <tr> <td>Flammability</td> <td>2</td> <td>Moderate</td> </tr> <tr> <td>Reactivity</td> <td>0</td> <td>Minimal</td> </tr> <tr> <td>Specific Hazard</td> <td>N/A</td> <td></td> </tr> </table>	Health	2	Moderate	Flammability	2	Moderate	Reactivity	0	Minimal	Specific Hazard	N/A	
Health	2	Moderate											
Flammability	2	Moderate											
Reactivity	0	Minimal											
Specific Hazard	N/A												

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Niacinamide	98-92-0	>90 - <100	Not Available

4 FIRST AID MEASURES

Eyes:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, seek medical attention.
Inhalation:	Move to fresh air. Seek medical attention if necessary or after significant exposure.
Skin:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician. Seek medical attention if necessary.
Ingestion:	Rinse mouth with water. Do not give milk or alcoholic beverages. Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Seek medical attention if symptoms develop and persist.
General Information:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Physician should treat symptomatically.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	Use appropriate media (water, foam) for adjacent fire. No unsuitable extinguish media listed.
Special protective equipment & precautions for firefighters:	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Flash Points:	360°F (182°C) (open cup)
Specific hazards arising from the chemical:	No fire hazards but consider dust explosion hazard. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Take precautionary measures against static discharges. See also Stability and Reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Avoid dust formation and avoid breathing dust. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak.
Methods and material for containment and cleaning up:	Pick up and arrange disposal without creating dust. Dispose of all waste and cleanup materials in accordance with regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage, incl. any incompatibilities:	Keep container tightly closed and dry. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Niacinamide	Not available	Not available	Not available

TWA: Time Weighted Average over 8 hours of work.
 TLV: Threshold Limit Value over 8 hours of work.
 REL: Recommended Exposure Limit
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
 IDLH: Immediately Dangerous to Life or Health
 WEEL: Workplace Environmental Exposure Levels
 CEIL: Ceiling

Personal Protection:

Eyes:	Safety glasses with side shields should be worn.
Inhalation:	In the case of dust or aerosol formation use respirator with an approved filter. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Body:	Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate type of protective glove material (for example nitrile rubber).
Other:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Crystalline powder	Vapor Pressure:	0.00045 hPa (25°C; OECD Test Guideline 104)
Odor:	Odorless	Vapor Density:	No data available
Odor Threshold:	No data available	Evaporation Rate:	No data available
Color:	White	Flammability:	Not highly flammable; may form combustible dust concentrations in air.
Molecular Weight:	No data available	Upper/lower Explosive Limit:	No data available
pH:	6.0 - 7.5(as aqueous solution)	Flash Point:	360°F (182°C) (open cup)

Boiling Point/Range:	224 °C (20 hPa)	Specific Gravity:	No data available
Melting Point Range:	128 -131 °C	Water Solubility:	Water: 500 g/l (25 °C)
Density:	1.4 g/cm ³ (25 °C)	Solubility in Ethanol:	660 g/l
Partition Coefficient: n-octanol/water:	log Pow-0.38	Solubility in Diethylether:	ca.10 g/l
Impact Sensitivity:	Not impact sensitive	Solubility in Glycerol:	Soluble
Combustibility index for deposited dust:	2 (23 °C) 2 (100 °C)	Auto-Ignition Temperature:	No self-ignition observed in the Grever oven at temperatures below melting point.
Molecular Weight:	122.13 g/mol	Explosive Properties:	Not explosive
Maximum explosion over-pressure:	8.0 bar (Sieved sample, 100 %< 0.075 mm, Loss on drying 0.1 %)	Dust Explosion Properties:	KSt value: 240 bar·m/s (Sieved sample: 100% < 0.075mm, Loss on drying 0.1 %)
Minimum ignition temperature of a dust/air mix:	480 °C (Median value: 0.170 mm) determined in the BAM oven	Dust Explosion Class	St2 (Sieved sample, 100 %< 0.075 mm, Loss on drying 0.1 %)
Particle size:	<= 10 %< 0.050 mm	Dissociation Constant:	pKa 3.35
Minimum Ignition Energy:	3 -10 mJ (Milled sample, Median value: 041 mm, Loss on drying 0.5 %, EN 13821)	Powder Volume Resistivity:	ca. 5E+09 Ohmm (Product sample, Median value: 170 mm, Loss on drying 0.2 %)

10 STABILITY AND REACTIVITY

Reactivity:	No hazards to be specially mentioned.
Chemical Stability:	Stable under recommended storage conditions.
Hazardous Polymerization:	No dangerous reaction known under conditions of normal use.
Conditions to Avoid:	Heat
Incompatible Materials:	Acids and bases and strong oxidizing agents.
Hazardous Decomposition Products:	Nitrogen oxides and (NO _x)Carbon oxides.
Possible Hazardous Reactions:	Dust may form explosive mixture in air.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin:	LD50: > 2,000 mg/kg (rabbit)
Eyes:	Rabbit: Moderate eye irritation (OECD Test Guideline 405)
Respiratory:	May cause irritation of respiratory tract
Ingestion:	LD50: > 2,500 mg/kg (rat) LD50: 2,500 mg/kg (mouse)
Carcinogenicity:	Did not show carcinogenic effects in animal experiments (mouse).
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcino-gen
Teratogenicity:	Not teratogenic (rabbit)
Genotoxicity in vitro:	Not mutagenic. Not genotoxic
Genotoxicity in vivo:	Not genotoxic (mouse)
STOT (Single Exposure):	The substance or mixture is not classified as specific target organ toxicant, single exposure
STOT (Repeated Exposure):	NOAEL (Oral, rat, 28 days): 215mg/kg bw/d Subacute toxicity study (28 days) (OECD Test Guideline 407)
Human Exposure:	RDA (Recommended Daily Allowance): 15 -18mg
Reproductive Toxicity:	No indication for adverse effects on fertility known
Sensitization:	Did not cause sensitization (guinea pig, Buehler Test, OECD Test Guideline 406).
Aspiration Toxicity:	No aspiration toxicity classification

12 ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate:	LC50: >1000 mg/L (96h) (Poecilia reticulata)
Aquatic Invertebrate:	EC50: >1000 mg/L (24h) (Daphnia magna)
Terrestrial:	IC50: >1000 mg/L (72h) (Desmodesmus subspicatus)
	EC10: 4235 mg/L (18h) (Pseudomonas putida)

Persistence and Degradability: Readily biodegradable. 95% (28 days)

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

PBT and vPvB Assessment: The substance does not fulfill the PBT criteria. The substance does not fulfill the vPvB criteria.

Other Adverse Effects: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone -CAA Section 602 Class I Substances.

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

13 DISPOSAL CONSIDERATIONS

Waste Residues: Do not contaminate ponds, water-ways, or ditches with chemical or used container. Do not dispose of waste into sewer. Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of contents/container in accordance with all applicable local regulations. User must determine if any wastes generated exhibit hazardous characteristics as per 40 CFR Part 261 or other national/local legislation.

Product Containers: Dispose of as unused product. Do not re-use empty containers. Dispose of contents/container in accordance with all applicable local regulations.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not data available.
TDG (Transportation of Dangerous Goods, Canada):	Not data available.
IMDG (International Maritime Dangerous Goods):	Not regulated as dangerous goods.
IATA (International Air Transport Association):	Not regulated as dangerous goods.
UNRTDG (United Nations Recommendations on the Transport of Dangerous Goods):	Not regulated as dangerous goods.
Transport in Bulk (Annex II of MARPOL 73/78 & IBC Code):	Not applicable for product as supplied.
49 CFR (Code of Federal Regulations):	Not regulated as dangerous goods.

15 REGULATORY INFORMATION

TSCA List:	No substances are subject to a Significant New Use Rule. No substances are subject to TSCA 12(b) export notification requirements.
CERCLA Reportable Quantity:	This material does not contain any components with a CERCLA RQ.
SARA 304:	This material does not contain any components with a section 304 EHS RQ.
SARA 302:	This material does not contain any components with a section 302 EHS TPQ.
SARA 311/312 Hazards:	Combustible dust. Serious eye damage or eye irritation.
SARA 313:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
Clean Air Act:	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).
Clean Water Act:	This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the

MA Right to Know:	U.S. CleanWater Act, Section 311, Table 117.3.
PA Right to Know:	This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307This product does not contain any priority pollutants related to the U.S. Clean Water Act
ME Chemicals of High Concern:	No components are subject to the Massachusetts Right to Know Act. Nicotinamide (98-92-0) Product does not contain any listed chemicals.
VT Chemicals of High Concern:	Product does not contain any listed chemicals.
WA Chemicals of High Concern:	Product does not contain any listed chemicals.

16 OTHER INFORMATION

Revision Date:	26-Feb-2024
Compliance:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer:	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.