

Safety Data Sheet

NICOTINAMIDE
EFFECTIVE DATE: 2015-07-07

1 Product and Company Identification

- | | |
|---------------------------------------|--|
| 1.1 Product Name: | Nicotinamide |
| 1.2 Product Identifier: | nicotinamide |
| 1.3 Catalog Number: | 07154 |
| 1.4 Product Use: | Laboratory Chemical |
| 1.5 Manufacturer/Supplier: | STEMCELL Technologies Suite 500-1618 Station Street Vancouver, British Columbia V6A 1B6 Canada |
| 1.6 In Case of Emergency Call: | 1-800-667-0322 |

2 Hazards Identification

2.1 Classification of the substance or mixture

Skin Irritation, Category 2
 Eye Irritation, Category 2A
 Target Organ Systemic Toxicity (single exposure), Category 3

2.2 Label elements

Pictogram



Signal word Warning

Hazard statement(s)

| | |
|------|-----------------------------------|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

Precautionary statement(s)

| | |
|--------------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash skin thoroughly after handling. |
| P280 | Wear {protective gloves/protective clothing/eye protection/face protection}. |
| P302+352 | IF ON SKIN: Wash with plenty of soap and water. |
| P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P332+313 | If skin irritation occurs: Get medical advice/ attention. |
| P337+313 | If eye irritation persists: Get medical advice/ attention. |
| P362 | Take off contaminated clothing and wash before reuse. |

Safety Data Sheet

NICOTINAMIDE
EFFECTIVE DATE: 2015-07-07

2.3 Other hazards No data available

3 Composition / Information on Ingredients

3.1 Substances

Synonyms Pyridine-3-carboxylic acid amide, Nicotinic acid amide, Vitamin PP, Vitamin B3, Niacinamide

Molecular formula C₆H₆N₂O

Molecular weight 122.12 g/mol

| Hazardous Components (Chemical Name) | CAS # | Concentration | EC # |
|--------------------------------------|---------|---------------|-----------|
| pyridine-3-carboxamide | 98-92-0 | ≤ 100% | 202-713-4 |

4 First Aid Measures

4.1 Description of first aid measures

4.1.1 If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

4.1.2 In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

4.1.3 In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician..

4.1.4 If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 Fire Fighting Measures

5.1 Extinguishing Media

5.1.1 Suitable Extinguishing Media

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

5.1.2 Unsuitable Extinguishing Media

No data available

5.2 Special hazards arising from the substance or mixture

5.2.1 Flammable Properties and Hazards

Not flammable or combustible.

Safety Data Sheet

NICOTINAMIDE**EFFECTIVE DATE: 2015-07-07****5.2.2 Flash Pt**

No data available

5.2.3 Autoignition Pt

No data available

5.2.4 Explosive Limits

LEL: No data available

UEL: No data available

5.2.5 Hazardous Combustion Products

Carbon oxides, nitrogen oxides (NOx)

5.3 Fire Fighting Instructions

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid raising and breathing dust, and provide adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7 Handling and Storage**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

8 Exposure Controls/Personal Protection**8.1 Exposure limits**

Contains no substances with occupational exposure limit values.

8.2 Engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

8.3 Personal protective equipment**8.3.1 Eye/face protection**

Safety Data Sheet

NICOTINAMIDE
EFFECTIVE DATE: 2015-07-07

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

8.3.2 Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.3.3 Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.3.4 General hygiene considerations

General industrial hygiene practice.

8.3.5 Environmental exposure controls

Do not let product enter drains.

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|--|---------------------------------|
| Appearance | White, crystalline solid |
| Odour | No data available |
| Odour threshold | No data available |
| pH | No data available |
| Melting point/freezing point | 128 - 131°C (262 - 268°F) - lit |
| Boiling point/boiling range | No data available |
| Flash point | 150°C (302°F) - closed cup |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Upper/lower flammability or explosive limits | No data available |
| Vapour pressure | No data available |
| Vapour density | No data available |
| Relative density | No data available |
| Solubility | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |

10 Stability and Reactivity

10.1 Reactivity

No data available

Safety Data Sheet**NICOTINAMIDE****EFFECTIVE DATE: 2015-07-07**

| | |
|--|--|
| 10.2 Chemical stability | Stable under recommended storage conditions. |
| 10.3 Possibility of hazardous reactions | No data available |
| 10.4 Conditions to avoid | No data available |
| 10.5 Incompatible materials | Strong oxidizing agents |
| 10.6 Hazardous decomposition products | Hazardous decomposition products formed under fire conditions - Carbon oxides, nitrogen oxides (NOx) |

11 Toxicological Information**11.1 Acute toxicity**

| | |
|-------------|-------------------------------|
| Oral: | LD50 Oral - rat - 3,500 mg/kg |
| Inhalation: | No data available |
| Dermal: | No data available |
| Other: | No data available |

11.2 Skin corrosion/irritation

No data available

11.3 Serious eye damage/eye irritation

No data available

11.4 Respiratory and/or skin sensitization

No data available

11.5 Germ cell mutagenicity

No data available

11.6 Carcinogenicity

| | |
|--------|---|
| 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 by IARC. |
| ACGIH: | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. |
| NTP: | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |
| OSHA: | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |

11.7 Reproductive toxicity

No data available

11.8 Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

11.9 Specific target organ toxicity - repeated exposure

No data available

11.10 Aspiration hazard

No data available

11.11 Potential health effects

| | |
|-------------|---|
| Inhalation: | May be harmful if inhaled. Causes respiratory tract irritation. |
| Ingestion: | May be harmful if swallowed. |

Safety Data Sheet

NICOTINAMIDE**EFFECTIVE DATE: 2015-07-07**

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

11.12 Signs and symptoms of exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

11.13 RTECS # QS3675000

12 Ecological Information**12.1 Toxicity** No data available**12.2 Persistence and degradability** No data available**12.3 Bioaccumulative potential** No data available**12.4 Mobility in soil** No data available**12.5 Other adverse effects** No data available

13 Disposal Considerations**13.1 Waste disposal method**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Contaminated packaging

Dispose of as unused product.

14 Transport Information**14.1 UN number** No data available**14.2 UN proper shipping name**
DOT Not dangerous goods
ADR/RID Not dangerous goods
IMDG Not dangerous goods
IATA Not dangerous goods**14.3 Transport hazard class(es)** No data available**14.4 Packing group** No data available**14.5 Environmental hazards** No data available**14.6 Special precautions** No data available

15 Regulatory Information**15.1 USA****SARA 302 Components:**

The following components are subject to reporting levels established by SARA Title III, Section 302:

SARA 313 Components:

Safety Data Sheet

NICOTINAMIDE**EFFECTIVE DATE: 2015-07-07**

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.

SARA 311/312:

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

| Component | CAS # | Revision Date |
|--------------|---------|---------------|
| Nicotinamide | 98-92-0 | |

New Jersey Right To Know Components

| Component | CAS # | Revision Date |
|--------------|---------|---------------|
| Nicotinamide | 98-92-0 | |

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 EU

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

15.3 Canada

WHMIS Classification: D2B Toxic Material Causing Other Toxic Effects

This SDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

16 Other Information**16.1 Prepared by:** Quality Control, STEMCELL Technologies Inc.**16.2 Revision:** N/A**16.3 Notice:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Safety Data Sheet (SDS) is current as of the Effective Date shown in this document and may be subject to amendment by STEMCELL Technologies Inc.**16.4 Disclaimer:** **THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.**