



Resonance Specialties Limited

MATERIAL SAFETY DATA SHEET

Nicotinamide

1. IDENTIFICATION :

MSDS Name	Nicotinamide.
Manufacturer	Avignon Exim Pvt. Ltd
Synonyms	3-Pyridinecarboxamide, Niacinamide

2. COMPOSITION AND INFORMATION ON INGREDIENTS

CAS No.	98-92-0
Chemical Name	Nicotinamide

3. HAZARDS IDENTIFICATION

Not available

POTENTIAL HEALTH EFFECTS

Eyes	Causes mild eye irritation.
Skin	May cause skin irritation. May be harmful if absorbed through the skin.
Ingestion	May cause irritation of the digestive tract. May be harmful if swallowed.
Inhalation	May cause respiratory tract irritation. May be harmful

Chronic if inhaled.
Not available.

4. FIRST AID MEASURES

Eyes Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid

Skin Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes

Ingestion Get medical aid. Wash mouth out with water

Inhalation Remove from exposure and move to fresh air immediately

Notes to physician Treat symptomatically and supportively

5. FIRE FIGHTING MEASURES

General Information As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dust can be an explosion hazard when exposed to heat or flame

Extinguishing Media Use water spray, dry chemical, carbon dioxide, or chemical foam.

6. ACCIDENTAL RELEASE MEASURES

General Information Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks Vacuum or sweep up material and place into a suitable disposal container.

7. HANDLING AND STORAGE

Handling

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage

Store in a cool, dry place. Store in a tightly closed container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Eyes

Wear chemical goggles.

Skin

Wear appropriate protective gloves to prevent skin exposure.

Clothing

Wear appropriate protective clothing to prevent skin exposure.

Respirators

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

ACCIDENTAL RELEASE MEASURES

General Information

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks

Vacuum or sweep up material and place into a suitable disposal container.

HANDLING & STORAGE

Handling

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage

Store in a cool, dry place. Store in a tightly closed container.

EXPOSURE CONTROLS & PERSONAL PROTECTION

Engineering Controls Use adequate ventilation to keep airborne concentrations low

PERSONAL PROTECTIVE EQUIPMENT

Eyes	Wear chemical goggles.
Skin	Wear appropriate protective gloves to prevent skin exposure.
Clothing	Wear appropriate protective clothing to prevent skin exposure.
Respirators	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state/Form(20°C)	Crystalline powder
Color	white
Odor	odorless
pH	6.0-7.5 (5% aq.sol.)
Vapor Pressure	Not available.
Viscosity	Not available.
Boiling Point	150 - 160 deg C
Freezing/Melting Point	128 - 131 deg C
Autoignition Temperature	480 deg C (896.00 deg F)
Flash Point	182 deg C (359.60 deg F)
Explosion Limits, lower	Not available.
Explosion Limits, upper	Not available.
Decomposition Temperature	>140 deg C
Solubility in water	1000 g/l water (20°C)
Specific Gravity/Density	
Molecular Formula	C ₆ H ₆ N ₂ O
Molecular Weight	122.13

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal temperatures and pressures.
Conditions to avoid	Incompatible materials.
Hazardous Polymerisation	Will not occur
Conditions to avoid	Incompatible materials.
Incompatibility with other Materials	Strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Toxicity Data

RTECS#	CAS# 98-92-0: QS3675000
LD50/LC50	# 98-92-0: Oral, mouse: LD50 = 2500 mg/kg; Oral, rat: LD50 = 3500 mg/kg.
Carcinogenicity	Nicotinamide - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information

12. ECOLOGICAL INFORMATION

Ecotoxicity	Fish: Guppy: LC50: 4200 mg/l; 96h; .Daphnia: Daphnia: EC50: >1000 mg/l; 24h; .Algae: EC50: 560 mg/l; 72h; .Log Pow: -0.38
Other	Readily biodegradable

13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations

14. TRANSPORTATION INFORMATION

	IATA	IMO	RID/ADR
Shipping Name	N.A	N.A	N.A
Hazard Class	N.A	N.A	N.A
UN Number	N.A	N.A	N.A
Packing Group	N.A	N.A	N.A

15. REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

⇒ S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 98-92-0: 0

United Kingdom Occupational Exposure Limits

16. ADDITIONAL INFORMATION

MSDS Creation **Date:** 7/16/1996

MSDS Revision #2 **Date:** 12/12/2007

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