

MATERIAL SAFETY DATA SHEET

SECTION I: NAME & HAZARD SUMMARY

Product Name: **Niacinamide** **INCI: Niacinamide**

Hazard Summary: Low hazard for usual industrial or commercial handling.
Eye Contact: May cause irritation.

SECTION II: INGREDIENTS

Ingredient: Niacinamide CAS No.: 98-92-0 99% C₆-H₆-N₂-O

Ingredients not precisely identified are proprietary and non-hazardous.

SECTION III: PHYSICAL DATA

Appearance: White granular powder; odorless
Boiling point: No data available
Melting Point: 130-133°C
Solubility: Soluble in water
Specific Gravity: 1.40 @ 25°C

SECTION IV: FIRE & EXPLOSION HAZARD DATA

Extinguishing media: Use media suitable to extinguish the supporting or surrounding fire. For small fires only, use carbon dioxide, dry powder or foam.

Special fire fighting equipment: Firefighters should wear NIOSH approved self-contained breathing apparatus and protective clothing to prevent contact with skin

Unusual fire and explosion hazards: Toxic fumes of cyanide and nitrogen oxides may be released upon thermal decomposition.

SECTION V: REACTIVITY DATA

Product is stable. Avoid exposure to light and/or heat. Heating in strongly acid or alkaline solutions causes hydrolyzation of the amide group to the acid. Hazardous decomposition products include ammonia, vapors of cyanide and oxides of nitrogen and carbon. Incompatible with strong bases, alkalis and oxidizing agents. Hazardous polymerization will not occur.

MATERIAL SAFETY DATA SHEET

General: Irritant.

Ingestion: None known.

Eye contact: May cause irritation.

Skin contact: May cause irritation.

Inhalation: May cause irritation.

First aid procedures:

Skin: Wash material off the skin with copious amounts of soap and water. Remove contaminated clothing. Wash contaminated clothing before reuse. Seek medical attention if irritation persists.

Eyes: Immediately flush eyes with plenty of cool water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: Drink water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person).

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Collect in a manner that does not create dust and place in a suitable waste container. Avoid contact of material with skin or eyes. Use Adequate ventilation.

Disposal Method: Dispose of in accordance with federal, state and local regulations.

Container Disposal: Dispose of in accordance with federal, state and local regulations.

SECTION VIII PERSONAL PROTECTION

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. A qualified industrial hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH (or equivalent) and appropriate to the hazard. Avoid contact of material with skin or eyes. Mechanical ventilation or local exhaust as needed to control exposure to dust, vapors or mists. Access to a safety shower and eye-wash.

SECTION IX: HANDLING AND STORAGE

Store in ambient temperature away from incompatible material.

MATERIAL SAFETY DATA SHEET

SECTION X:	TOXICOLOGICAL INFORMATION
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EFFECTS OF OVEREXPOSURE:

EYES: Contact causes irritation. May cause chemical conjunctivitis.

SKIN: Contact causes irritation. May cause reddening of the skin.

INHALATION: Inhalation of dust and/or vapor causes irritation to mucous membranes and upper respiratory tract. Can produce delayed pulmonary edema.

INGESTION: Chronic ingestion or excessive dosage may cause nausea, vomiting, diarrhea, urine discoloration, ataxia and peripheral neuropathy (deterioration of the nerves and nerve tissue).

ADDITIONAL INFORMATION:

Target Organ(s): Liver, Eyes and Kidneys.

May be harmful by inhalation, ingestion or skin absorption. May target the peripheral vascular system. May produce reversible liver damage.

Mutation and toxicity data listed in RTECS under QS3675000.

Oral Rat LD50 = 3500 mg/kg (Prague, Czechoslovakia – 1986). Details of toxic effects not reported other than lethal dose value.

Definition(s): RTECS = Registry of Toxic Effects of Chemical Substances.

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