



MATERIAL SAFETY DATA SHEET

Section 1 - Chemical Product

Product Name: Nicotinic Acid

Synonym: 3-Pyridinecarboxylic acid; nicotinic acid;Niacin

Contact Information:

Company: Aurora Industry Co.,Ltd.

Address:Room 7033, No.9-1, Haifu Road, Dalian Free Trade Zone, China

Tel:0411-82288674

Section 2 - Composition, Information On Ingredients

CAS# 59-67-6

Chemical Name: Nicotinic acid

Content:99%

EINECS# 200-441-0

Hazard Symbols: None Listed.

Risk phrases : R38, R41

Section 3 - Hazards Identification Emergency Overview

The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of ... (Water, unless specified as a water reactive material).

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.



Section 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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated, Wear approved respiratory protection, chemically compatible gloves and protective clothing. Wipe up spillage or collect spillage using a high efficiency vacuum cleaner. Avoid breathing dust. Place spillage in appropriately labelled container for disposal. Wash spill site.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling And Storage

Handling:As a general rule, when handling USP Reference Standards avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

Storage : Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Engineering controls such as exhaust ventilation are recommended.

Respiratory Protection : Use a NIOSH approved respirator, if it is determined to be necessary by an industrial hygiene survey involving air monitoring. In the event that a respirator is not required, an approved dust mask should be used.

Gloves : Chemically compatible

Eye Protection : Safety glasses or goggles

Protective Clothing : Protect exposed skin.

Exposure Limits : n/f

Section 9 - Physical And Chemical Properties

Properties as indicated on the MSDS are general and not necessarily specific to the USP Reference Standard Lot provided.

Appearance and Odor : White crystals or crystalline powder; slight odor or odorless.

Odor Threshold : n/f

pH : 2.7 (saturated aqueous solution)



Melting Range : About 235° C

Boiling Point : Sublimes

Flash Point : 193 ° C (TOC)

Autoignition Temperature : 580 ° C

Evaporation Rate : n/f

Upper Flammability Limit : n/f

Lower Flammability Limit : n/f

Vapor Pressure : < 10 hPa @ 20 ° C

Vapor Density : 4.25

Specific Gravity : 1.47

Solubility in Water : Sparingly soluble. Freely soluble in boiling water.

Fat Solubility : n/f

Other Solubility : Soluble in propylene glycol. Freely soluble in boiling alcohol, in alkali hydroxides, and in carbonate. Insoluble in ether.

Partition Coefficient: n-octanol/water : -2.34 @ 25 ° C (Flask-shaking Method)

Percent Volatile:

Reactivity in Water : n/f

Explosive Properties : n/f

Oxidizing Properties : n/f

Formula : C₆H₅NO₂

Molecular Weight : 123.11

Section 10 - Stability And Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid : Avoid exposure to moisture.

Incompatibilities : Strong oxidizers and sodium nitrite.

Decomposition Products : When heated to decomposition material emits toxic fumes of NO_x.

Emits toxic fumes under fire conditions.

Stable? Yes

Hazardous Polymerization? No

Section 11 - Toxicological Information

Oral Rat : LD₅₀: 7000 mg/kg

Oral Mouse : LD₅₀: 3720 mg/kg

Other Toxicity Data : Oral Rabbit LD₅₀: 4550 mg/kg

Irritancy Data : n/f

Corrosivity : n/f

Sensitization Data : n/f

Mutagenicity Data : Negative for mutagenicity in the Ames test.

Reproductive and Developmental Effects : Problems in humans have not been documented with intake of normal daily recommended amounts. Pregnancy studies have not been done in humans or animals.



Section 12 - Ecological Information

Ecological Information : Salmo trutta (Fish, fresh water, marine) LC50: 520 mg/L/96 hours

Daphnia magna (Crustacea) EC50 : 77 mg/L/48 hours

Scenedesmus subspicatus (Algae) EC50 : 89.93 mg/L/72 hours

Section 13 - Disposal Considerations

Disposal: Dispose of waste in accordance with all applicable Federal, State and local laws.

Section 14 - Transport Information

IATA

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

Section 15 - Regulatory Information

China Regulatory Information : n/f

International Regulatory Information : EINECS # 200-441-0

Canada: WHMIS Class D-2B

Risk phrases : R38, R41

Safety phrases : S36/37/39

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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