



LASONS
India Private Limited

LASONS INDIA PVT.LTD.
C-18, MIDC, Taloja, Navi

SAFETY DATA SHEET
As per Globally Harmonized System (GHS)

SAFETY DATA SHEET – NIACIN	MSDS No.	Effective Date	Review Date	Revision No.
	QC/MSDS/01	03/06/2022	02/06/2024	06

SECTION: 1 IDENTIFICATION

Product Name : Niacin

Synonyms : 3-Pyridinecarboxylic acid
Niacin
Nicotinic acid
3-Carboxypyridine
3-Carboxypyridine

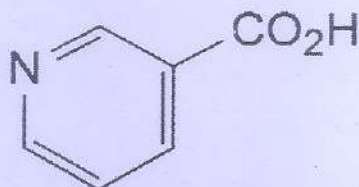
Systematic Name : 3-Pyridinecarboxylic acid

CAS RN : 59-67-6

EC# : 200-441-0

Molecular Formula : $C_6H_5NO_2$

Structural formula :



Types/Grades : Solid Crystalline Powder/IP/BP/USP/EP/JP



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Manufacturer Supplier : Lasons India Pvt. Ltd.

Registered Office : 8, New Jagruti, 227, S. V. Road,
Bandra (W), Mumbai – 400 050. India.
Telephone #: 91-22-26441728/26441729
Fax – 91-22-26428131
E – Mail : info@lasons.com
Web : www.lasons.com

Factory Address : C-18, MIDC, Taloja, District – Raigad,
Maharashtra. India.
Telephone #: 91-22-27410146/47
Fax: - 91-22-27402359
E – Mail: lasons_india2005@rediffmail.com.

Product Uses:

Niacin used as a nutrient and/or dietary supplement in animal drugs, feeds, and related products. Niacin is also used to prevent niacin deficiency and to treat pellagra.



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SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Serious eye damage/eye irritation: Category 2

Hazard Pictogram: GHS 07: Exclamation Mark



Signal Word: Warning!

Classification under CLP: eye Irrit. 2:H319

Classification under CHIP: Xi: R36

Most important adverse effects: Causes serious eye irritation.

HAZARD AND PRECAUTIONARY STATEMENTS:

HAZARD STATEMENTS: H319: Causes serious eye irritation.

PRECAUTIONARY STATEMENTS:

Prevention

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists: Get medical advice/attention.



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MIE : Minimum Ignition Energy

The Conventional standard test indicates an MIE of 1.7 mJ with conformity interval from 0.6 to 5.1 mJ for Niacin dust.

Disposal

P501: Dispose of contents/container to local/regional/national/international regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Sr.No.	Chemical Name	CAS	# EC	Purity
1.	Niacin	59-67-06	200-441-0	>99.5%

SECTION 4: FIRST AID MEASURES

Key symptoms

Acute effects:

It causes serious eye irritation.

FIRST AID:

Eyes: If in eyes rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do continue rinsing. Seek medical attention.

Skin: Immediately take off all contaminated clothing. Wash thoroughly with water for at least 15 minutes. Wash contaminated clothes before reuse. Seek immediate medical attention.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if you feel unwell.

Ingestion: If swallowed call a poison center if you feel unwell. Rinse mouth. Do NOT induce vomiting by use of emetics. Seek medical attention.



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SECTION 5 : FIRE-FIGHTING MEASURES

Flash Point: 193°C

Flammability: Non Combustible liquid

Extinguishing media:

Appropriate extinguishing media: Dry chemical powder, carbon dioxide, and alcohol resistant foam. Do not permit water to get inside containers. Water may also be used. Water can be effective in cooling down the fire exposed containers and knocking down the vapours. Water jets may be used to flush spills away and dilute the same to non-flammable mixtures fog or alcohol-resistant foam by directing streams to the periphery of the fires to prevent spread.

Special Protective Equipment and Precautions for Fire Fighter:

Evacuate the area and fight fires from a safe distance .If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions or as per locally valid procedures. Fire fighters must wear Self Contained Breathing Apparatus (SCBA) and full protective clothing. The chemical is harmful in contact with skin. Report any run-off of fire waters contaminated with this chemical as per local and federal procedures applicable.

Unusual fire and explosion hazard:

Toxic vapors may be released on thermal decomposition including nitrogen oxides, carbon monoxide and cyanide. High vapor concentration may result in an explosion hazard. Vapors are heavier than air. May travel considerable distance from source and flashback.



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SECTION 6 : ACCIDENTAL RELEASE MEASURES

Minor Spills

- Clean up all spills immediately following relevant Standard Operating Procedures.
- Avoid breathing vapors and contact with skin and eyes.
- Shut off leak source if possible.
- Shut off all possible sources of ignition.
- Wear protective clothing, boots, impervious gloves and safety glasses.
- Wipe up.
- Decontaminate all equipment.

Major Spill

- Alert Emergency Responders and tell them location and nature of hazard.
- Shut off all possible sources of ignition and increase ventilation.
- Wear protective clothing, full boots, impervious gloves, safety glasses and Self Contained
- Breathing Apparatus (SCBA), as may be deemed appropriate.
- Clear area of personnel and move upwind.
- Stop leaks if possible.
- Prevent, by any means available, spillage from entering drains or water and watercourses.
- Collect recoverable product into labeled containers for recycling, recovery or disposal.
- Contain spill with sand, earth or vermiculite.
- Spread arca with lime or absorbent material, and leave for at least 1 hour before washing.
- Clean up all tools and equipment.
- Inform authorities in event of contamination of any public sewers, drains or water bodies.



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SECTION 7: HANDLING AND STORAGE

Handling

- Do not breathe vapor or mist.
- Wear protective gloves/clothing and eye/face protection.
- Wash thoroughly after handling.
- Ground and secure containers when dispensing or pouring product.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Launder contaminated clothing before re-use.
- If on skin or hair, IMMEDIATELY remove all contaminated clothing and rinse/shower with plenty of water.
- Use in a well ventilated place/Use protective clothing commensurate with exposure levels.

Shelf-life and Storage condition:

- Shelf life : 5 years based on long term study

Storage condition :

- Store at room temperature at $30 \pm 2^{\circ}\text{C}$
- Stored in a cool , well ventilated place
- Keep securely closed when not in use



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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Chemical name ACGIH NIOSH OSHA-Final PELs

Niacin None Listed None Listed None Listed

OEL-RUSSIA: STEL 1 mg/m³

Exposure Controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. Local ventilation is usually preferred. Ensure that eyewash stations and safety showers are close to the workstation location.

Occupational exposure to nicotinic acid may occur through inhalation and dermal contact with this compound at workplaces where nicotinic acid is produced or used. Monitoring data indicate that the general population may be exposed to nicotinic acid via ingestion of food and dermal contact with this compound and other consumer products containing nicotinic acid.

Personal Protection:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eyes: Safety goggles/ Chemical Safety glasses and Face shield.

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



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Hand protection: In full contact:

Glove material: nitrile rubber

Layer thickness: 0.11 mm

Breakthrough time: > 480 Min.

In Splash contact:

Glove material: nitrile rubber

Layer thickness : 0.11 mm

Breakthrough time: > 480 Min.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374, for example KCL 740 Dermatril® (full contact), 740 Dermatril® (splash contact).

General Industrial hygiene:

- Immediately change contaminated clothing.
- Apply skin protective barrier cream.
- Wash hands and face after working with the substance.
- Under no circumstances eat or drink at the workplace.
- Do not inhale substances, work under hood.



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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties.

Sr. No.	Parameter	Typical Value
1	Appearance	White crystalline solid
2	Odor	Slightly amine to odorless
3	Odor Threshold	Not available
4	Melting Point	237 ⁰ C
5	Boiling point	Sublimes
6	Flash point	193 ⁰ C
7	Evaporation rate (n-BuAc=1)	Not available
8	Explosive limits	Lower exp limit:30mg/cu m
9	Vapor pressure	5.7 X 10 ⁻⁶ mm hg@25 ⁰ C
10	Vapor density (air = 1)	4.24
11	Specific gravity (water = 1)	1.473
12	Solubility (water)	15 mg/ml; Slightly Soluble.
13	Solubility in other solvents	Soluble in Ether
14	pH (in aq saturated solution)	2.7 (Acidic)
15	Log Kow (octanol/water)	0.36
16	Auto-ignition temperature	580 ⁰ C
17	Decomposition temperature	> 140 ⁰ C
18	Viscosity	Not available
19	Molecular Weight	123.11
20	pKa @20 ⁰ C	4.75
21	Log Koc	1.16 (Estimated)
22	Flammable material	No
23	Oxidizer	No
24	Pyrophoric material	No
25	Explosive material	No



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SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and conditions. Stable in air, foods, acids and bases.

Conditions to avoid: Dust explosion. Avoid contact with incompatible chemicals.

Incompatible chemicals: Strong Acids, Strong Alkaline solutions and Oxidizing agents.

Hazardous decomposition: When heated to decomposition it emits toxic fumes of nitroxides

Hazardous Polymerization: Not expected

SECTION 11: TOXICOLOGICAL INFORMATION

a) Acute Toxicity:

In the workplace, single or repeated contact can lead to a flush effect on the skin, including the face. The reddening is the result of increased peripheral blood circulation from dilation of capillaries at the skin surface. The flush effect is accompanied by sensations of itching, tingling, and warmth of the skin. It causes serious eye irritation also. It vanishes after the exposure has ended and is thus reversible.

Chronic effects:

Affects the kidneys, eyes & liver.

RTECS#: QT0525000

LD50/LC50:

Acute Oral LD50 (Mouse) : 372 0mg/kg

Acute Oral LD50 (Rabbit) : 455 0mg/kg

Acute Oral LD50 (Rat) : 7000mg/kg

Acute Dermal LD50 :(Rat) > 2000 mg/kg bw

b) Skin irritation/ corrosion

Causes skin irritation.



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c) Serious Eye damage/ irritation

Causes serious eye irritation.

d) Respiratory or skin sensitization

No data is available.

e) Germ cell Mutagenicity

No data is available.

f) Carcinogenicity

Not listed by NTP, IARC and OSHA.

Not present on the EU CMR list.

According to information presently available, Niacin is not found to be carcinogenic.

g) Reproductive toxicity

No data is available.

h) STOT-single exposure

No data is available.

i) STOT- repeated exposure

No data available.

j) Aspiration hazard.

No data available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity (Ecotoxicity):

Acute toxicity to fish

Fish (Salmo trutta) LC50: 520 mg/l/96h



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Acute toxicity to invertebrates

Daphnia: Daphnia: EC50: 77 mg/L; 48h

Persistence and degradability:

Aerobic: In aqueous, aerobic soil suspensions containing mineral salts and a fertile garden soil

inoculum, nicotinic acid was completely degraded after 2 to 4 days of incubation. In aqueous, aerobic soil suspensions containing a silt loam soil inoculum, nicotinic acid was degraded by 16.1% after 1 day, 99.9% after 2 days, and 100% after 4 days of incubation. Nicotinic acid was readily biodegraded in screening tests using an activated sludge inoculums.

Anaerobic: In aqueous, anaerobic soil suspensions containing mineral salts and a fertile garden soil inoculum, nicotinic acid was completely degraded after 8 to 17 days of incubation. In anaerobic aquifer slurries, nicotinic acid was completely biodegraded after incubation for one year reaching 74% of the potential methane production from this process.

Bio accumulative potential(Predicted)

BCF = 3.162

Log Kow = 0.36

Based on the Log Kow and Bio concentration factor value it is expected to have low potential to

Concentrate in fatty tissue of fish and aquatic organisms.

Mobility in soil

Log Koc = 1.16 Low absorption in soil.

Henry's Law Constant = 5.11×10^{-11} atm-m³/mole. Non- volatile from aqueous bodies. Log

Kow = 0.36 Very Low bioaccumulation is expected.



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Other adverse effects.

Environment Fate:

Terrestrial Fate: Based on a classification scheme, an estimated value of Koc determined from a log Kow of 0.36 and a regression-derived equation, indicates that **nicotinic acid** is expected to have very high mobility in soil. The pKa of **nicotinic acid** is 4.75, indicating that this compound will primarily exist in the anion form in the environment and anions generally do not adsorb more strongly to soils containing organic carbon and clay than their neutral counterparts. Volatilization from moist soil is not expected, as ions do not volatilize. **Nicotinic acid** is not expected to volatilize from dry soil surfaces based upon an estimated vapor pressure of 5.7×10^{-6} mm Hg, determined from a fragment constant method. In aqueous, aerobic soil suspensions, **nicotinic acid** was completely degraded after 2 to 4 days of incubation, suggesting that biodegradation may be an important environmental fate process in soil.

Aquatic Fate: Based on a classification scheme, an estimated Koc value, determined from a log Kow of 0.36 and a regression-derived equation, indicates that **nicotinic acid** is not expected to adsorb to suspended solids and sediment. A pKa of 4.75 indicates **nicotinic acid** will exist almost entirely in the anion form at pH values of 5 to 9 and therefore volatilization from water surfaces is not expected to be an important fate process. It is even suggested that suggests the potential for bio concentration in aquatic organisms is low. In aqueous, aerobic soil suspensions, **nicotinic acid** was completely degraded after 2 to 4 days of incubation, suggesting that biodegradation may be an important environmental fate process in water.

Atmospheric Fate: According to a model of gas/particle partitioning of semi volatile organic compounds in the atmosphere, **nicotinic acid**, which has an estimated vapor pressure of 5.7×10^{-6} mm Hg at 25 deg C, determined from a fragment constant method, will exist in both the vapor and particulate phases in the ambient atmosphere. Vapor-phase **nicotinic acid** is degraded in the atmosphere by reaction with photochemical-produced hydroxyl radicals;



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the half-life for this reaction in air is estimated to be 24 days, calculated from its rate constant of 1.72×10^{-13} cu cm/molecule-sec at 25 deg C. **Nicotinic acid** does not absorb at wavelengths >290 nm and therefore is not expected to be susceptible to direct photolysis by sunlight.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state or local laws. Note that disposal regulations may also apply to empty containers and equipment rinsates.

SECTION 14: TRANSPORT INFORMATION

This substance is considered to be Non Hazardous for transport by Air/Rail/Road and Sea and thus not regulated by IATA/ICAO/ARD/RID/IMO/IMDG.

Environmental hazards

It is expected that this chemical is not a marine pollutant and is not Harmful to the Aquatic environment.

SECTION 15: REGULATORY INFORMATION

European Union Information

Classification as per Regulation 67/548/EEC: Xi: R36 Xi- Irritant

Risk Phrases:

R36: Irritating to eyes.



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Safety Phrases:

S24/25: Avoid contact with skin and eyes.

S9: Keep container in well ventilated place.

S23: Do not breathe gas/fumes vapor/spray.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

Classification as per CLP Regulation 1272/2008:

o Eye Irrit Cat.2

o Hazard Statements: : H319

US information

TSCA

CAS# 59-67-6 is listed on the TSCA inventory.

WGK (Water Danger/Protection)

CAS# 59-67-6

Canada

CAS# 59-67-6 is listed on Canada's DSL List.

CAS# 59-67-6 is not listed on Canada's Ingredient Disclosure List.

SECTION 16: OTHER INFORMATION

(a) A key or legend to aberrations and acronyms used in the safety data sheet;

PBT =Persistent Bio accumulative and Toxic.

vPvB= Very Persistent and Very Bio accumulative.

SCBA= Self Contained Breathing Apparatus.

NIOSH REL= National Institute for Occupational Safety and Health Recommended Exposure Limit.

OSHA PEL=Occupational Safety and Health Administration Permissible Exposure Limit.



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OELTWA= Occupational Exposure Limit Time Weighted Averages.

IDLH= Immediately Dangerous to Life or Health.

UEL= Upper Explosive Limit.

LEL= Lower Explosive Limit.

RTECS= Registry of Toxic Effects of Chemical Substances.

NTP=National Toxicology Program.

IARC= International Agency for Research on Cancer.

EPA=Environmental Protection Agency.

TSCA= Toxic Substances Control Act.

CERCLA= Comprehensive Environmental Response, Compensation, and Liability Act.

SARA= Superfund Amendments and Reauthorization Act.

NFPA= National Fire Protection Association.

WHIMS= Workplace Hazardous Materials Information System.

DSL/NDL= Domestic/Non-Domestic Substances List.

CSR=Chemical Safety Report.

BCF = Bio Concentration Factor.

DNEL = Derived No Effect Level.

PNEC = Predicted No Effect Concentration.

TLV = Threshold Limit Value.

ACGIH = American Conference of Governmental Industrial Hygienists.

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals.

CLP = Classification, Labelling and Packaging.

LD / LC = Lethal Doses / Lethal Concentration.

GHS = Globally Harmonized System.

ADR = Accord European relative au transport international de marchandises.

IMDG-Code = International Maritime Code for Dangerous Goods.

EmS = Emergency measures on Sea.

ICAO = International Civil Aviation Organization.

IATA/DGR= International Air Transport Association/Dangerous Goods Regulation.



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(b) Key Literature reference and sources for data

Biographical reference and data sources

CLP REG (regulation) (EC) no. 1272/2008, last modification by regulation (EC) no. 790/2009

DIR 67/548/EWG, last modification by DIR 2009/2/EC

REG (EC) no. 1907/2006, last modification by REG (EC) Nr. 453/2009.

Degussa Antwerpen N.V Antwerpen 4 ; European Chemicals Bureau; IUCLID Dataset.

European Chemicals Bureau; IUCLID Dataset, Nicotinic Acid (59-67-6) (2000 CD-ROM edition).

[(1) Naik MN et al; Soil Biol Biochem 4: 313-23 (1972) (2) Sims GK, Sommers LE; J Environ Qual 14:580-4 (1985) (3) Pitter P, Simanova J; Sb Vys Sk Chem-Technol Praze, (Oddil) F:Technol VodyProstredi 22: 93-113(1978)]

[(1) Naik MN et al; Soil Biol Biochem 4: 313-23 (1972) (2) Adrian NR, Suflita JM; Environ Toxicol Chem 13: 1551-57 (1994)]

Internet

RTECS

ESIS

