

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 4.0 Revision Date 26.02.2010

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Nicotinic acid

Product Number : N4126

Brand : Sigma-Aldrich

Company : Sigma-Aldrich (Shanghai) Trading Co., Ltd
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Eye irritation (Category 2)

According to European Directive 67/548/EEC as amended.

Irritating to eyes.

Label elements

Pictogram



Signal word

Warning

Hazard statement(s)
H319

Causes serious eye irritation.

Precautionary statement(s)
P305 + P351 + P338

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

Hazard symbol(s)
Xi

Irritant

R-phrases(s)
R36

Irritating to eyes.

S-phrases(s)
S26

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

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 3-Picolinic acid
Niacin

Pellagra preventive factor
Pyridine-3-carboxylic acid
Vitamin B3

Formula : C₆H₅NO₂
Molecular Weight : 123,11 g/mol

CAS-No.	EC-No.	Index-No.	Classification	Concentration
Nicotinic acid				
59-67-6	200-441-0	-	Eye Irrit. 2; H319 Xi, R36	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

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

In case of skin contact

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

In case of eye contact

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

If swallowed

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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

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

7. HANDLING AND STORAGE

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. Normal measures for preventive fire protection.

Conditions for safe storage

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

Light sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

Eye protection

Safety glasses with side-shields conforming to EN166

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	powder
Colour	white
Odour	odourless

Safety data

pH	3,4 at 10 g/l at 20 °C
Melting point	no data available
Boiling point	no data available
Flash point	193 °C - closed cup
Ignition temperature	> 365 °C
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1,467 g/cm ³ at 20 °C
Water solubility	15 g/l at 20 °C 150 g/l at 100 °C
Partition coefficient: n-octanol/water	log Pow: -0,590 at 25 °C
Solubility	12,5 g/l at 25 °C Ethanol

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

no data available

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

LD50 Oral - rat - 7.000 mg/kg

LD50 Dermal - rat - > 2.000 mg/kg

LD50 Intraperitoneal - rat - 730 mg/kg

LD50 Subcutaneous - rat - 5.000 mg/kg

Skin corrosion/irritation

Skin - rabbit - No skin irritation - 4 h - OECD Test Guideline 404

Serious eye damage/eye irritation

Eyes - rabbit - Moderate eye irritation - OECD Test Guideline 405

Respiratory or skin sensitization

Maximisation Test - guinea pig - OECD Test Guideline 406 - Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Genotoxicity in vitro - Ames test - *S. typhimurium* - negative

Genotoxicity in vitro - Chromosome aberration test in vitro - Other cell types - negative

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.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects**Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

Causes eye irritation.

Signs and Symptoms of Exposure

Reversible liver enzyme abnormalities.

Additional Information

RTECS: QT0525000

12. ECOLOGICAL INFORMATION**Toxicity**

Toxicity to fish

mortality LC50 - *Oncorhynchus mykiss* (rainbow trout) - 520 mg/l - 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia
and other aquatic

Immobilization EC50 - *Daphnia magna* (Water flea) - 77 mg/l - 48 h
Method: DIN 38412

invertebrates.

Toxicity to algae	Growth inhibition IC50 - <i>Desmodesmus subspicatus</i> (green algae) - 90 mg/l - 72 h Method: OECD Test Guideline 201
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Toxicity to bacteria	Growth inhibition IC50 - <i>Pseudomonas putida</i> - 120 mg/l - 72 h
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Persistence and degradability

Biodegradability	Biotic/Aerobic Result: 100 % - Readily biodegradable.
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Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Text of H-code(s) and R-phrases mentioned in Section 3

Eye Irrit.	Eye irritation
H319	Causes serious eye irritation.
Xi	Irritant
R36	Irritating to eyes.

Further information

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