

Benzyl nicotinate: sc-233993



The Power to Question

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Benzyl nicotinate
Catalog number: sc-233993
Synonyms: Nicotinic acid benzyl ester
CAS Number: 94-44-0
Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800
Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. Hazards identification

Classification according to directive 67/548/EEC:

Xi Irritant
R 36/38 Irritating to eyes and skin.

3. Composition/information on ingredients

Chemical characterization (substance)

Molecular Formula: C₁₃H₁₁NO₂

CAS-Number: 94-44-0

EINECS-Number: 202-332-3

Customs tariff number: 2933 39 99

4. First aid measures

Following inhalation: Provide fresh air.

After skin contact: After contact with skin, wash immediately with soap and plenty of water. Change contaminated clothing. In case of skin irritation, seek medical treatment.

After eye contact: With eyelids open, wash out eyes for several minutes under flowing water. Consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink large quantities of water. Consult physician.

5. Fire fighting measures

Suitable extinguishing media

Alcohol resistant foam, extinguishing powder, carbon dioxide, water fog.

Extinguishing media which must not be used for safety reasons

High power water jet

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

Combustible.

In case of strong heating: The vapors of the product are heavier than air and can form explodable mixtures.

Can be released in case of fire: Nitrous fumes, Carbon monoxide and carbon dioxide.

Special protective equipment for fire-fighters

Wear a self-contained breathing apparatus and chemical resistant suit.

Additional information

Use water spray to minimise or disperse vapors. Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions: Avoid contact with the substance. Wear suitable protective clothing. Do not breathe dust. Provide adequate ventilation.

Environmental precautions: Do not empty into drains.

Methods for cleaning up: Avoid generation of dust. Collect dry and place in appropriate containers for disposal, cleaning.

7. Handling and storage

Handling

Information for safe handling: Avoid contact with skin and eyes.

Storage

Requirements for storerooms and containers: Keep container tightly closed and dry. Protect from light. Store at room temperature.

Storage class: 11= Combustible solids

8. Exposure controls / Personal protection equipment

Exposure controls

Do not inhale substance. Dust should be vacuumed up immediately at the place it occurs. See also information in chapter 7, section storage.

Occupational exposure controls

Respiratory protection: In case of dust/When aerosols and vapors form, use filter type A-P2 according to EN 141.

Hand protection: Protective gloves according to EN 374.

Glove material: Nitrile rubber-Layer thickness: 0,11 mm.

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed safety glasses according to EN 166.

General protection and hygiene measures: Take off immediately all contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Safety shower and eye wash station should be easily accessible to the work area.

9. Physical and chemical properties

Physical state	liquid	Molecular weight	213.23 g/mol
Odor	weak aromatic	Melting temperature	24 °C
Boiling range	179 - 180 °C (8 hPa)	Flash point	170 °C
Vapor pressure at 25 °C	0.015 Pa (calculated)	Density at 20 °C	1.161-1.17 g/cm ³
Solubility in water: at 20 °C (n-octanol / water)	0.3 g/L	Distribution coefficient	2.4 log P(o/w)

Note: Appreciable bio-accumulation is not to be expected (log P(o/w) 1-3).

10. Stability and reactivity

Conditions to avoid: Protect from excessive heat.

Materials to avoid: Violent reaction with strong oxidizing agents.

Hazardous decomposition products: Can be released in case of fire - Nitrous fumes, Carbon monoxide and carbon dioxide.

Additional information: Unsuitable materials - Plastic, rubber

11. Toxicological information

Toxicological Tests

After skin contact: Irritant. Danger of cutaneous absorption. May cause sensitization in susceptible people.

After eye contact: irritant

General remarks

After resorption of toxic quantities: CNS disorders, cardiovascular failure, collapse.

Bacteriological mutagenicity: Ames test - negative (OECD 471).

12. Ecological information

Ecotoxicity

Aquatic toxicity

Bacterial toxicity:

EC50 activated sludge: 714 mg/L/3h (OECD 209).

Water Hazard Class: 2 = water pollutant (WGK catalog number 4443)

Details of elimination

Further details:

Biodegradability: 84 %/28d (OECD 301 F).

Product is easily biodegradable.

Bioaccumulative potential

Distribution coefficient (n-octanol / water): 2.4 log P(o/w)

Appreciable bio-accumulation is not to be expected (log P(o/w) 1-3).

Additional ecological information

General information: Do not allow to enter ground water, sewage or drains.

13. Disposal considerations

Product

Waste key number 160506* = laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals.

* = Evidence for disposal must be provided.

Recommendation: Incinerate according to applicable local, state and federal regulations.

Contaminated packaging

Waste key number 150107 = Glass packaging.

Recommendation: Waste disposal according to official state regulations. Cleaned containers may be recycled.

14. Transport information

Overland transport (ADR/RID)

Product designation: Not restricted

Transport by sea (IMDG)

Proper shipping name: Not restricted

Marine Pollutant: No

Air transport (IATA)

Proper shipping name: Not restricted

Additional information

Not a hazardous material with respect to transportation regulations.

15. Regulatory information

Labelling (67/548/EEC or 1999/45/EC)

Code letter and hazard symbol:

Xi Irritant

R phrase(s):

R 36/38 Irritating to eyes and skin.

S phrase(s):

not applicable

National regulations

National regulations - Great Britain

Hazchem-Code: -

National regulations - Germany

Storage class: 11= Combustible solids

Water Hazard Class: 2 = water pollutant (WGK catalog number 4443)

Informations on working limitations

Observe employment restrictions concerning young persons.

National regulations - USA

TSCA Inventory: listed

TSCA HPVC: not listed

Hazard rating systems

NFPA Hazard Rating:



Health: 1 (Slight)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
X	

Health: 1 (Slight)

Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

16. Other information

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

3/8/2012