

Material Safety Data Sheet

in accordance with 91/155/EEC

Articaine hydrochloride

Substance key: SXR013151 Version:1.5 (World)

Revision Date: 01.03.2003



1. Identification of the substance/preparation and company

Product details

Trade name: Articaine hydrochloride

Supplier details

Aventis Pharma Deutschland GmbH

65926 Frankfurt am Main

Telephone no.: +49 (69) 305- 0

Information provided by

USB - Sicherheit

Telephone no.: +49 (69) 305-3963/- 12590

Emergency telephone number: +49 (69) 305-6418

2. Composition/information on ingredients

Chemical characterization : 4-Methyl-3((1-oxo-2-(propylamino)propyl)amino)-2-thiophene-carboxylic acid methyl ester, monohydrochloride

Therapeutic class : local anesthetic

CAS number : 23964-57-0

EC number :

UN number :

EINECS number : 245-957-7

ELINCS number :

3. Hazards identification

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Highly effective medicinal substance

Caution: Through the effect of the product, the eye can become insensitive to pain. Danger of damage to cornea of the eye through mechanical rubbing of the eye.

Harmful if swallowed.

4. First aid measures

General information : Remove contaminated clothing immediately and dispose of safely.

After inhalation : Take medical treatment.

After contact with skin : In case of contact with skin wash off immediately with plenty of water

After contact with eyes : In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice

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After ingestion : When swallowed seek medical aid immediately and show the physician the packaging or the label of the packaging.

Notes to Physician

Treatment : Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media : water, foam, dry powder, carbon dioxide, sand

Special hazards from the substance itself, its combustion products or from its vapours : In case of combustion, evolution of dangerous gases possible.

Special protective equipment for firefighting : Use self-contained breathing apparatus

Further information : Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions : Avoid dust formation.
Use personal protective clothing.

Environmental precautions : Do not allow to enter drains or waterways

Methods for cleaning up/taking up : Take up mechanically
Avoid raising dust
When picked up, treat material as prescribed under heading "Disposal".

7. Handling and storage

Handling

Advice on safe handling : Avoid the formation and deposition of dust.
Provide exhaust ventilation if dust is formed.

Advice on protection against fire and explosion : Take precautionary measures against electrostatic loading.
Do not empty containers over cooking vessels containing combustible gas mixtures.
Avoid formation of dust
Observe the general rules of industrial fire protection

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Storage

Requirements for storage rooms and vessels : Keep only in the original container

Advice on storage compatibility : Keep away from chemicals as it is a pharmaceutical substance

Further information on storage conditions : Storage: dry

8. Exposure controls/personal protection

Personal protective equipment

General protective measures : Do not inhale dust Avoid contact with eyes and skin

Hygiene measures : Do not eat or drink during work time.
Keep away from foodstuffs and beverages.
Wash hands before breaks and after work.

Respiratory protection : Particle filter half mask, filter P2

Hand protection : Plastic gloves
Butyl rubber gloves.

Eye protection : safety glasses with side protection shield

Body protection : protective clothing

9. Physical and chemical properties

Form : Crystalline

Colour : white

Odour : odourless

Melting range : 168 - 170 °C

Self-ignition temperature : from 200 °C
Remarks: The sample was mixed 1:1 with diatomaceous earth.

Bulk density : approx. 340 kg/m³

Solubility in water : 331 g/l
at 24 °C

pH value : 4,2 - 4,9
at 10 g/l, 20 °C

Octanol/water partition coefficient : log(Pow): 2,07
Method: Calculation Hansch/Leo

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Combustion number : BZ1: Does not catch fire

Further information (phys.-chem.) : The product is capable of dust explosions.

10. Stability and reactivity

Thermal decomposition : from 240 °C
Method: DTA

Hazardous reactions : Risk of dust explosions.

11. Toxicological information

Acute oral toxicity (LD50) : 978 mg/kg
Species: rat
Source: Untersuch. Hoechst

Sensitization : non-sensitizing
Species: Guinea pig
Source: Untersuch. Hoechst

Remarks : In case of contact with mucous membranes an anaesthetising effect may occur (numbness)
No experimental evidence available for Genotoxicity in vitro. (Ames test negative).
No experimental evidence available for Genotoxicity in vivo. (Micro-nucleus test negative).

12. Ecological information

Information on elimination (persistence and degradability)

Biodegradability : not degradable
Duration of test: 28 d
Method: Zahn-Wellens test
Source: Untersuch. Hoechst

Ecotoxic effect

Fish toxicity (LC50) : 70,7 mg/L
Species: zebra fish
Duration of exposure: 96 h
Method: OECD 203
Source: Untersuch. Hoechst

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Fish toxicity (LC100) : 100 mg/L
Species: zebra fish
Duration of exposure: 96 h
Method: OECD 203
Source: Untersuch. Hoechst

Bacteria toxicity (EC50) : > 1.000 mg/L
Species: activated sludge
Method: OECD 209
Source: Untersuch. Hoechst

Further ecological information

Remarks : Do not allow to enter soil, waterways or waste water
Ecological data relate to the free base

13. Disposal considerations

Product : In accordance with regulations for special waste, must be taken to an authorised special waste incineration plant.

Uncleaned packaging : Packaging that cannot be cleaned should be disposed off as product waste

14. Transport information

Road transport

ADR : Non-hazardous goods

Road transport

RID : Non-hazardous goods

Air transport

IATA_P : Non-hazardous goods

Marine transport

IMDG : Non-hazardous goods

15. Regulatory information

Labelling in accordance with GefStoffV/EC : The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

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Hazard symbols



Xn: Harmful

R phrases

R22: Harmful if swallowed.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

22: Do not breathe dust.

24/25: Avoid contact with skin and eyes.

46: If swallowed, seek medical advice immediately and show this container or label.

61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. Other information

Version : 1.5 Revision date 01.03.2003

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