

1. Identification of the substance/preparation and of the company

Product details

Trade Name: Cetylpyridinium bromide
Product Number: M6363

Product Name: Cetylpyridinium bromide

Manufacturer /Supplier:

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.
Tel.: +49 (0)731 3608 123

Further information available from:

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.
Tel.: +49 (0)731 3608 123

Information in case of emergency:

Poison Information Centre Mainz, Germany
Tel.: +49 (0)6131 19240 / 24 h

MSDS-No: cetylbr-1

NOTE: If this product is a kit or supplied with more than one material, please refer to the MSDS for each component for hazard information.

Product Use:

This products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutics or other clinical uses.

2. Composition/information on ingredients

Chemical characterisation

Description: Mixture of substances listed below with non-hazardous additions

Product Name	CAS #	EC no	Annex I / Index Number
Patulin	140-72-7	205-428-3	None

Formula C₂₁H₃₈BrN
Molecular Weight 384.45 AMU
Synonyms N-Hexadecylpyridinium bromide

3. Hazardous identification

Hazard description:

R 25: Toxic if swallowed

R 26: Very toxic by inhalation

R 36/37/38: Irritating to eyes, respiratory system and skin.

R 51/53: Toxic to aquatic organism, may cause long term adverse effects in aquatic environment.

Immediately (show label where possible).

Classification system: The classification is according the latest editions of the EU-lists, and extended by company and literature data.

4. First-aid measures

After inhalation:

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing and shoes. Call a physician.

After eye contact: Rinse opened eye for several minutes (> 10 minutes) under running water. Then consult doctor.

After swallowing: If swallowed, wash out mouth with water provided person is conscious. Call for doctor immediately.

5. Fire-fighting measures

Suitable extinguishing agents:

Water Spray. Carbon Dioxide. Dry chemical powder, or appropriate foam.

Special risks: Specific Hazard(s): Emits toxic fumes under fire conditions.

Protective equipment (For firefighters): Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

Personal precaution procedures to be followed in case of leak or spill:

Evacuate area.

Person related safety precautions:

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Measures for cleaning/collecting:

Sweep up, place in bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. Handling and storage

Handling

Information for safe handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle container with care.

Information about fire – and explosion protection: No special measures required.

Storage:

Requirements to be met by storerooms and receptacles: No special measures required.

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Keep tightly closed. Store at RT.

Special requirements: Hygroscopic.

8. Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Engineering controls: Safety shower and eye bath. Mechanical exhaust required.

Personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from food, drink and animal food.

Remove spoiled clothing immediately. Wash contaminated clothing before reuse.

Wash thoroughly after handling.

Avoid contact with eyes and skin.

Respiratory protection: Use respirator.

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Protection of hands: Protective compatible chemical-resistant gloves.

Materials of gloves: The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration times of gloves: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles.

9. Physical and chemical properties

General Information

Form:	crystalline powder
Colour:	faintly beige
Odour:	not characteristic

Change in conditions

Melting point/Melting range:	63° to 66°C
Boiling point/Boiling range:	Undetermined

Flash point: Not applicable

Self-ignition: Product is not self-igniting

Danger of explosion: Product does not present an explosion hazard

Density at 20°C: Not applicable

Solubility in / Miscibility with Ethanol: soluble (20°C)

Solubility in / Miscibility with Acetone: soluble (20°C)

pH value at 20°C: Not applicable

Water Content: not applicable

10. Stability and reactivity

Thermal composition / conditions to be avoided:

No decomposition if used according to specifications.

Stability

Stability: Stable

Materials to avoid: Strong oxidizing agents.

Dangerous decomposition products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Hazardous Polymerisation: Will not occur.

11. Toxicological information

Signs and symptoms of exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Route of exposure:

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be fatal if inhaled.

Ingestion: Harmful if swallowed.

12. Ecological Information

General notes:

No quantitative data available.

Water hazard class 3 (German Regulation) (Self assessment): strongly hazardous to water.

Do not allow product to reach ground water, water course or sewage system even not in small quantities or diluted.

13. Disposal considerations

Product:

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. 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. Observe all federal, state, and local environmental regulations.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agents:

14. Transport information

Land transport ADR/RID (cross border)

ADR/RID class:	6.1 Toxic substance
UN-number:	2811
class:	6.1
Packing Group:	I
Proper shipping name:	Toxic solid, organic, n.o.s.

Maritime transport IMDG:

IMDG Class:	6.1 Toxic substance
UN-number:	2811
Packing Group:	I
Proper shipping name:	Toxic solid, organic, n.o.s.
Marine pollutant:	No
Severe Marine pollutant:	No
Technical name:	required

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:	6.1 Toxic substance
UN-number:	2811
Packing Group:	I
Proper shipping name:	Toxic solid, organic, n.o.s.
Inhalation Packing Group I:	Yes
Technical name:	required

15. Regulatory information

Labelling according to EU guidelines:

Indication of danger: T+ / N

Very Toxic / Hazardous to the environment

R-Phrases:

25-26-36/37/38-50/53 Toxic if swallowed. Very toxic by inhalation. Irritating to eyes, respiratory system and skin. Toxic to aquatic organism, may cause long term adverse effects in aquatic environment.

S-Phrases:

26-28-36/37-45-61 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with soap and water. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

National Regulations: Germany

Waterhazard class: Water hazard class 3 (Self-assessment): strongly hazardous to water.

16. Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Genaxxon BioScience GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.