

Date of issue: 15.04.2009 Replaces Data Sheet of : –

*** alterations as compared to previous version; n.ap. = not applicable; n.av. = not available



1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1 Identification of Substance or Preparation

Trade Name : Extraction Tubes L

Article No. : n.av.

Preparation No. : n.av.

Registration No. : n.av.

1.2 Use of the substance / preparation:

Analytics, diagnostics

1.3 Company / Undertaking Identification

1.3.1 Address of the Company / Supplier:

INVITEK GES. FÜR BIOTECHNIK & BIODESIGN mbH, Robert-Rössle-Straße 10, D - 13125 Berlin

Telephone : +49-30-94 89-3796, Fax : +49-30-94 89-3795

1.3.2 Responsible :

Chemie & Vorschrift, Kannheideweg 35, D-53123 Bonn-Duisdorf; E-Mail: info@chemie-vorschrift.de

1.4 Emergency - Telephone

Information Centre Specialising in Symptoms of Poisoning

Telephone : +49 - 761 - 19 240

Emergency - Telephone of Company / Undertaking

Telephone : +49-30-94 89-3796 (08:30 - 16:30)

2 HAZARDS IDENTIFICATION

2.1 For Humans (additional information is given under item 11) :

Corrosive. Causes burns.

Harmful if swallowed.

Allergic reactions and sensitization are possible.

2.2 For the Environment :

Environmentally hazardous. Very toxic to aquatic organisms. Raising overall contamination.

2.3 For Materials:

Materials should be tested for resistance.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical Characterisation:

Mixture of special ingredients

3.2 Dangerous Ingredients:

CAS - No.	Index - No.	EEC - No.	Material	m% - range	Symbol	R - phrases
12125-02-9	017-014-00-8	235-186-4	Ammonium chloride	50 - 100%	Xn	R 22-36
57-09-0	n.av.	200-311-3	Cetrimonium bromide	25 - 50%	C, N	R 22-34-(43)-50
39450-01-6	647-014-00-9	254-457-8	Proteinase	< 1%	Xn	R 36/37/38-42

Remarks: Classification and labelling of a product is indicated under item 15.

4 FIRST AID MEASURES

4.1 Inhalation:

After inhalation of product / fumes of fire leave contaminated area and provide for fresh air.

Get medical treatment.

4.2 Skin Contact :

Remove contaminated, saturated clothing immediately.

Wash with soap and water.

Call physician.

4.3 Eye Contact :

Summon a doctor immediately.

Flush eyes out immediately with large amounts of water with eye lids lifted.

4.4 Ingestion :

Summon a doctor immediately.

Rinse mouth out and drink plenty of water. Do not cause vomiting.

4.5 Note to Physician:

Symptomatic treatment.

4.6 Special Equipment:

n.av.

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5 FIRE FIGHTING MEASURES

- 5.1 **Suitable Extinguishing Media :** Water spray jet, foam, dry chemicals, CO₂.
- 5.2 **Extinguishing Media to Avoid :** None.
- 5.3 **Fire and Explosion Hazards :**
 In case of fire, product may form: Organic crackproducts and carbon oxides, nitrogenoxides (NO_x), hydrogen bromide (HBr), hydrogenchloride (HCl).
- 5.4 **Special Protective Equipment :**
 Wear positive pressure self-contained breathing apparatus.
 Wear full protective clothing.
- 5.5 **Additional Information :** This material is not combustible; use extinguishing media appropriate for surrounding fire.

6 ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal Precautions :**
 See No. 8.2 Personal Protective Equipment.
 Keep clear of dust.
- 6.2 **Environmental Precautions and Methods for Cleaning up :**
 Do not allow to enter drainage / surface-water / ground-water. Inform responsible authorities after accidental conduction.
 Take up with suitable absorbent material. Dispose of absorbed material in accordance with the regulations.
- 6.3 **Further Information :** None.

7 HANDLING AND STORAGE (For national regulations refer to item 15.2)

- 7.1 **Handling**
 - 7.1.1 **Precautions for Safe Handling :**
 Avoid forming of dust. Keep container tightly closed.
 Close container straight after use or if empty. Application only when sufficient ventilated.
 - 7.1.2 **Precautions in Case of Fire and Explosion :**
 No special measures necessary if used correctly.
- 7.2 **Storage**
 - 7.2.1 **Storage Instructions :**
 Keep only in the original container. Prevent penetrate into the soil surely.
 - 7.2.2 **Store away from :**
 Store away from oxidizers.
 - 7.2.3 **Further Information on Storage Conditions :**
 Recommended storage temperature: 20°C. Protect from warming up / overheating.
- 7.3 **Specific use(s):** n.av.

8 Exposure Controls and Personal Protection

- 8.1 **Exposure limit values:**

Material	Limit Value :
Cetrimonium bromide	6 mg/m ³ (Alveole passing fraction)
- 8.2 **Exposure controls**
 - 8.2.1 **Occupational exposure controls:**
 Avoid contact with eyes and skin. Take off contaminated, saturated clothing immediately.
 Do not inhale dust, gas, vapours, fire -fumes. Do not eat, drink or smoke during work.
 - 8.2.1a **Respiratory Protection :** If ventilation is insufficient, wear respiratory protection.
 - 8.2.1b **Hand Protection :** Gloves (solvent-resistant) (Nitril; break through time > 6 h)
 - 8.2.1c **Eye Protection :** Tightly fitting goggles
 - 8.2.1d **Skin Protection :** Light protective clothing
 - 8.2.1e **Further Information :** Refer to special restrictions in wearing protective equipment
 - 8.2.2 **Environmental exposure controls** n.av.

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12 ECOLOGICAL INFORMATION

- 12.1 **Ecotoxicity :**
 Cetrimonium bromide: LC₅₀ (Danio rerio, 96 Stunden): 0,2 mg / L
 EC₅₀ (Daphnia magna, 48 Stunden): 0,026 mg / L
- 12.2 **Mobility :**
 nav.
- 12.3 **Persistence and degradability:**
 The product is not readily biodegradable.
- 12.4 **Bioaccumulative potential:**
 nav.
- 12.5 **Results of PBT assessment**
 nav.
- 12.6 **Other adverse effects**
- 12.6.1 COD-Value, mg/g : nav.
- 12.6.2 BOD₅-Value, mg/g : nav.
- 12.6.3 AOX-Remarks : nav.
- 12.6.4 Significant Components : None.
- 12.6.5 Other adverse effects : None.

13 DISPOSAL CONSIDERATIONS (For national Regulations refer to item 15.)

- 13.1 **Residues**
- 13.1.1 Recommendation : R 2 / D 10 Waste - Code - No. : 07 07 99
 In addition comply with the regional authorities.
- 13.1.2 Safe Handling: See item 7 and 15.
- 13.2 **Contaminated Packaging**
- 13.2.1 Recommendation : Wash with suitable cleaner. Otherwise as described under Residues.
- 13.2.2 Safe Handling : As described under Residues.

14 TRANSPORT INFORMATION

14.1 Transportation by Road or Railway according to ADR and RID

Remarks :

Name and Description: UN 3077 Environmentally hazardous substance, solid, n.o.s.

(contains: cetrimonium bromide)

Class : 9

UN - No : 3077

Risklabel:

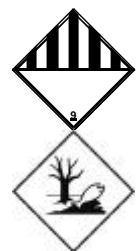
Classification Code: M7

Packing Group : III

Hazard-No.: 90

Transport-category: 3

Limited Quantity: LQ 27



14.2 Classification for Transportation by Inland-Navigation according to ADNO

Remarks : Classification has not been done.

Class : Division : Category :

14.2.1 Description of Goods :

14.2.2 Remarks :

14.3 Classification for Transportation by Vessels according to IMDG

Remarks : No dangerous goods according to IMDG

Class : 9

UN-No. : 3077

Packing Group : III

14.3.1 EmS-No. : F-A, S-F

14.3.2 Marine Pollutant : No.

14.3.3 Instruction for Declaration and Labelling :

Proper Shipping Name : Environmentally hazardous substance, solid, n.o.s. (contains: cetrimonium bromide)

Risk Label : Miscellaneous

14.3.4 Remarks : None.

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14.4 Classification for Transportation by Aeroplane according to IATA-DGR/ICAO-TI

Remarks :

Class : 9 UN-No. : 3077 Packing Group : III

14.4.1 Instruction for Declaration and Labelling :

Proper Shipping Name : Environmentally hazardous substance, solid, n.o.s. (contains: cetrimonium bromide)

Risk Label : Miscellaneous

Packing Instructions, Passenger : 911 Cargo : 911

14.4.2 Remarks : None.

15 REGULATORY INFORMATION

15.1 Classification according to EEC-Regulations :

Classification required by EEC : Yes.

Applicable Exemptions : No.

Hazard Identification : Corrosive Environmentally hazardous

Hazard Symbol(s) :

Component(s) : contains: Cetrimonium bromide, Ammonium chloride



R-Phrases :

R 22 - Harmful if swallowed.

R 34 - Causes burns.

R 50 - Very toxic to aquatic organisms.

S-Phrases :

(S 1/2 - Keep locked up and out of the reach of children.)

S 22: Do not breathe dust.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36 / 37 / 39: Wear suitable protective clothing, gloves and eye / face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Additional Markings :

Contains Proteinase. May produce an allergic reaction.

15.1.1 The above mentioned labelling is valid for distribution to industrial user.

Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.

15.2 National Regulations

VOC-Content: n.av.

16 OTHER INFORMATION

Text of R phrases mentioned in Section 3

R 22 - Harmful if swallowed.

R 34 - Causes burns.

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

R 36 - Irritating to eyes.

R 42 - May cause sensitization by inhalation.

R 43 - May cause sensitization by skin contact.

R 50 - Very toxic to aquatic organisms.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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