

**Material Safety Data Sheet**

according to ANSI Z400.1-2004

**Cryptand 222**

Print date: 06.05.2013

Product code: 800.XXXX

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

Cryptand 222

**Further trade names**

4,7,13,16,21,24-Hexaoxa-1,10-diazabicyclo[8.8.8]hexacosane

**Synonyms:**

2,2,2-Crypt; 2,2,2-Cryptand; 2,2,2-Cryptate; Crypt-2,2,2; Cryptand 2.2.2; Cryptand C 222; Cryptating agent 222; Cryptofix 222; Kryptand 222; Kryptofix 222

**Chemical characterization ( substance )**

CAS No: 23978-09-8

EC No: 245-962-4

**Details of the supplier of the safety data sheet**

Company name: ABX advanced biochemical compounds

Biomedizinische Forschungsreagenzien GmbH

Street: Heinrich-Gläserstraße 10-14

Place: D-01454 Radeberg

Telephone: +49 3528 4041 60

Telefax: +49 3528 4041 65

e-mail: info@abx.de

Internet: http://www.abx.de

**Emergency telephone:** +49 3528 4041 60**SECTION 2: Hazards identification****Route(s) of Entry****Signs and Symptoms of Exposure**

Carcinogenicity (NTP):

Carcinogenicity (IARC):

Carcinogenicity (OSHA):

**SECTION 3: Composition/information on ingredients****Substances**Sum formula: C<sub>18</sub>H<sub>36</sub>N<sub>2</sub>O<sub>2</sub>

Molecular weight: 376.49

**Hazardous components**

| CAS No     | Components   | Quantity   |
|------------|--------------|------------|
| 23978-09-8 | Cryptand 222 | 95 - 100 % |

**SECTION 4: First aid measures****Description of first aid measures**

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#### SECTION 5: Firefighting measures

##### Extinguishing media

#### SECTION 6: Accidental release measures

#### SECTION 7: Handling and storage

##### Precautions for safe handling

##### Conditions for safe storage, including any incompatibilities

Further information on storage conditions

< 30 °C

#### SECTION 8: Exposure controls/personal protection

##### Control parameters

##### Exposure controls

#### SECTION 9: Physical and chemical properties

##### Information on basic physical and chemical properties

Physical state:

Color:

Test method

Changes in the physical state

Melting point:

68 - 71 °C

#### SECTION 10: Stability and reactivity

Stability:

Stable

Possibility of Hazardous Reactions:

Will not occur

#### SECTION 11: Toxicological information

##### Information on toxicological effects

##### Acute toxicity

| CAS No     | Components      |        |           |         |        |
|------------|-----------------|--------|-----------|---------|--------|
|            | Exposure routes | Method | Dose      | Species | Source |
| 23978-09-8 | Cryptand 222    |        |           |         |        |
|            | oral            | ATE    | 500 mg/kg |         |        |

#### SECTION 12: Ecological information

#### SECTION 13: Disposal considerations

##### Waste treatment methods

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**SECTION 14: Transport information****SECTION 15: Regulatory information****U.S. Regulations****SECTION 16: Other information****Hazardous Materials Information Label (HMIS)**

|                      |   |
|----------------------|---|
| Health:              | 1 |
| Flammability:        | 0 |
| Physical Hazard:     | 1 |
| Personal Protection: | C |

**NFPA Hazard Ratings**

|                |   |
|----------------|---|
| Health:        | 1 |
| Flammability:  | 0 |
| Reactivity:    | 0 |
| Unique Hazard: |   |

