

## Control Beads

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

#### Identification of the substance or preparation

Commercial Product name: Cedex Control Beads / HiRes Control Beads

#### Company/undertaking identification

Manufacturer / distributor: innovatis AG  
Street/POB-No.: Meisenstraße 96  
State/city/postal code: D-33607 Bielefeld  
World Wide Web: <http://www.innovatis.com>  
Telephone: 0049 [0] 521 2997-300  
Fax: 0049 [0] 521 2997-285  
Email: [info@innovatis.com](mailto:info@innovatis.com)  
Emergency information: not required

### 2. Composition/information on ingredients

Constituents:	CAS#	EINECS #.	Chemical name (acc. to EC)	R-phrase(s)	Symbol(s)	Content
	9012-36-6	232-731-8	Agarose	--	--	<=5%
	64-17-5	200-578-6	Ethylalcohol	11	F	20%
	7732-18-5	231-791-2	Water	--	--	80%

### 3. Hazard identification

Hazard Symbol(s): Not applicable  
Critical hazard to man and environment: R-

### 4. First aid measures

After inhalation: Provide fresh air.  
After skin contact: Remove residues with water.  
After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult physician if problems persist.  
After swallowing: After ingestion of high quantities: Seek medical attention.

### 5. Fire fighting measures

Suitable extinguishing media: Water, extinguishing powder, carbondioxide.  
Extinguisher unsuitable on safety grounds: High power water jet.  
Particular hazards arising from the preparation itself, combustion products or resulting gases: In case of fire may form: carbon monoxide and carbon dioxide.

### 6. Accidental release measures

Environmental precautions: Collect spilled material using cloth and/or paper towels. Place in suitable container for disposal.  
Additional information: Special skid risk by leaking/spilling product.

### 7. Handling and storage

#### Handling

Information for safe handling: Provide adequate ventilation.  
Precautions against fire and explosion: Keep away from sources of ignition. No smoking.

#### Storage

Requirement for storerooms and containers: S7 Keep container closed tightly, in a cool place at 40°F (4°C) when not in use.  
Storage class: -

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### 8. Exposure controls / personal protection

#### Information on system design and engineering measures

See information in chapter 7, storage section

#### Components with workplace relevant concentration limits

CAS-Number	Chemical name (acc. to EC)	Type	Value
64-17-5	Ethylalcohol	TWA (= German MAK)	500 mL/m <sup>3</sup> = ppm
		TWA (= German MAK)	960 mg/m <sup>3</sup>
		OSHA/NIOSH-TWA	1000 ppm
		OSHA/NIOSH-TWA	1900 mg/m <sup>3</sup>
		ACGIH-TWA	1000 ppm
		ACGIH-TWA	1880 mg/m <sup>3</sup>

#### Personal protection equipment

Respiratory protection: Provide adequate ventilation.  
Hand protection: Not required.  
Eye protection: Safety glasses.  
General protection and hygiene measures: Not required.

### 9. Physical and chemical properties

#### Appearance

Form: Liquid (dispersed solid)  
Color: Colorless, weak cloudy  
Odor: Mildly alcoholic

#### Safety relevant data

Flash point: Not applicable  
Density: At 68°F (20°C): 0,9707-0,9709 g/mL  
Solubility in water: At 68°F (20°C): completely miscible

### 10. Stability and reactivity

#### Additional information

Condition to avoid (hazardous reactions): Protect from excessive heat.  
Materials to avoid: Avoid contact with oxidizing agents. (e.g. nitric acid).  
Hazardous decomposition products: In case of fire may form: carbon monoxide and carbon dioxide  
Polymerization: Will not occur.  
Additional information: Stable.

### 11. Toxicological information

#### Toxicological tests

Acute toxicity: Ethylalcohol (20%): LD50 rat, oral: >= 7060 mg/kg  
Additional information: Direct contact may cause skin and eyes reddening and irritation.

### 12. Ecological information

#### Details of elimination (decomposition and persistence)

Further details: Product is easily biodegradable.

#### Ecotoxicological effects

Water risk class (Germany) 1, mild water pollutant.

#### Additional ecological information

VOC reference: The product does not contain organically bound halogen.  
General remarks: Do not allow to enter ground soil, sewage or drains.

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### 13. Disposal considerations

#### Product

Recommendation: Incinerate according to applicable local, state and federal regulations.  
Waste key number (D): 55373  
Waste key number (EU): 070504

#### Contaminated packaging

Recommendation: Dispose of waste according to applicable local, state and federal regulations  
Waste key number (D): 57118 plastic container  
Waste key number (EU): 150102 plastic container

### 14. Transport information

#### Overland transport

ADR/GGVS (road): Not applicable  
RID/GGVE (railway): Not applicable

#### Transport by sea

Remarks: Not applicable

#### Air transport

Remarks: Not applicable

#### Additional information

Not a hazardous material with respect to transportation regulations.

### 15. Regulatory information

#### Classification

Code letter and hazard symbol: N/A  
R phrase(s): R- Not required  
S phrase(s): S7 keep container tightly closed.

#### National regulations

VbF classification: -  
Water risk class (Germany): 1, mild water pollutant

### 16. Other information

#### Group that issues data sheet

Contact person: See chapter 1, department responsible for information

Control Beads are used to check performance of measurements at regular intervals in order to detect changes in the measurement process of Cedex and HiRes measurement systems (part of system suitability test).

To the best of our knowledge, the above information describes exclusively the safety requirements of the product. It does not constitute a guarantee for the properties of the product described in terms of the legal warranty regulations.