

Printing date 04/05/2010 Reviewed on 10/21/2009

1 Identification of substance:

- · Product details:
- · Trade name: Catecholamines by Column Test Zinc Sulfate
- · Catalog or product number: 189-5109
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- · Manufacturer/Supplier:

Bio-Rad Laboratories, Diagnostic Group

4000 Alfred Nobel Drive Hercules, California 94547

1(510)724-7000

- · Information department: Technical services, customer support.
- Emergency information:

1(800) 424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION, or ACCIDENT.

2 Composition/Information on components:

- · Chemical characterization:
- · Identification number(s):
- EINECS Number: 231-791-2
- · Chemical characterization
- · **Description**: Mixture of the substances listed below with non-hazardous additions.

· Listing of dangerous and non-hazardous components:				
7446-20-0	Zinc Sulphate Heptahydrate	Xi, N; R 36/38-50/53	50-100%	
9004-54-0	Dextran		20-35%	

· Additional information For the wording of the listed risk phrases refer to section 15.

3 Hazards identification

· Emergency overview:

Irritant to eyes.

Irritant to skin.

Irritant to respiratory system and skin.

Xi Irritant

N Dangerous for the environment

- · Routes of exposure: Skin
- · Information pertaining to particular dangers for man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 36/38 Irritating to eyes and skin.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Classification system

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.

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· NFPA ratings (scale 0-4)

Health = 1 Fire = 0 Reactivity = 0

4 First aid measures

- · After inhalation In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing Rinse mouth with water. Seek medical attention and appropriate follow-up.

5 Fire fighting measures

- · Suitable extinguishing agents
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Avoid formation of dust.
- · Measures for environmental protection:

Inform respective authorities in case of seepage into water course or sewage system.

· Measures for cleaning/collecting: Pick up mechanically.

7 Handling and storage

- · Handling
- · Information for safe handling:

No special measures required.

No special precautions are necessary if used correctly.

- · Information about protection against explosions and fires: No special measures required.
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.

8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information: The lists that were valid during the creation were used as basis.

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- · Personal protective equipment
- General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- · Penetration time of glove material

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

· Eye protection:

Safety glasses

Tightly sealed goggles.

9 Physical and chemical pr	roperties:
· General Information	
Form: Color: Odor:	Solid. Whitish Odorless
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	undetermined undetermined
· Flash point:	Not applicable
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Density:	Not determined
· Solubility in / Miscibility with Water:	Insoluble
· Solvent content: Organic solvents:	0.0 %
Solids content:	100.0 %

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Materials to be avoided:
- · Dangerous reactions No dangerous reactions known
- · Dangerous products of decomposition: Sulfur oxides (SOx)

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11 Toxicological information

- · Acute toxicity:
- · LD/LC50 values for hazardous components per OSHA criteria:

7446-20-0 Zinc Sulphate Heptahydrate

Oral LD50 2150 mg/kg (rat) (Hydrate)

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritant effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

· Target organs:

Skin.

Eye.

12 Ecological information:

- · Ecotoxical effects:
- · Remark: Very toxic for fish
- · Additional ecological information:
- · General notes:

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

13 Disposal considerations

- · Product:
- · Recommendation Hand over to hazardous waste disposers.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

- · DOT regulations:
- · Hazard class:
- · Land transport ADR/RID (cross-border)
- · ADR/RID class:
- · Maritime transport IMDG:
- · IMDG Class:

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- · Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -

15 Regulations

- · SARA (Superfund Amendents and Reauthorization Act of 1986 USA)
- Section 302/304 (40CFR355.30 / 40CFR355.40):

None of the ingredients is listed.

· Section 313 (40CFR372.65):

7446-20-0 Zinc Sulphate Heptahydrate

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Markings according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· Code letter and hazard designation of product:

Xi Irritant

N Dangerous for the environment

· Risk phrases:

36/38 Irritating to eyes and skin.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

- · Safety phrases:
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 37/39 Wear suitable gloves and eye/face protection.
- 60 This material and its container must be disposed of as hazardous waste.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing MSDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

· * Data compared to the previous version altered.