Printing date 05/04/2018

Reviewed on 10/05/2009

Product identifier Product identifier Product identifier Product identifier Product identifier for Clear Native (2x) Article number: 42:544 Paplication of the substance / the mixture Laboratory chemicals Dealis of the supplier of the safety data sheet Manufacturer/Supplier: SERVA Electrophoresis GmbH Carl-Ben:Sr. 7 D-69115 Heidelberg Product is deletered: Profession Information content Main: – Phone: +49 0221 13840-35 Emergency Ielephone number: Medical Emergency Information in case of poisoning: Poison Information Center Main: – Phone: +49 00 131 19240 advisory service in German or English language) Hazard(s) Identification Classification of the substance or mixture Voison Islomages fertility or the unborn child. Label elements Chase Islaments Signal word Danger Hazard determining components of labeling: midazole Maxing Statements May damage fertility or the unborn child. Hazard statements May damage fertility or the unborn child. Product is classified and labeled according to the Globally Harmonized System (GHS). Hazard Statements May damage fertility or the unborn child. Hazard statements May damage fertility or the unborn child. Product is classified and labeled according to the Globally Harmonized System (GHS). Hazard statements May damage fertility or the unborn child. Product is classified and labeled according to the Globally Harmonized System (GHS). Hazard statements May damage fertility or the unborn child. Product is classified and stafety precautions have been read and understood. Ware protective gloves/protective clothing/eye protection/face protection. Heating a components of labeling and understood. Ware protective gloves/protective clothing/eye protection/face protection. Heating a component is accordance with local/regional/national/international regulations. Classification system: WFPA ratings (scale 0 - 4) Profeestion System: Heating = 0 Frace 0		on			
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Mamfacturer/Supplier: SERVA Electrophoresis GmbH Carl-Bent,Str. 7 D-69115 Heidelberg Fel.: +49 6221 13840-0 FaX: +49 6221 13840-0 msds.info@serva.de Information department: Product Safety department Tel.: +49 6221 13840-35 Emergency telephone number: Medical Emergency Information in case of poisoning: Poison Information Center Maine - Phone: +49 (0) 6131 19240 advisory service in German or English language) Hazard(s) identification Classification of the substance or mixture			the mixture Laborate	ory chemicals	
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0.5-1.5%

· HMIS-ratings (scale 0 - 4)



· Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

288-32-4 imidazole

• Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· Description of first aid measures

- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 *Fire-fighting measures*

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Environmental precautions: Dilute with plenty of water.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- *Reference to other sections No dangerous substances are released.*

7 Handling and storage

· Handling:

· Precautions for safe handling No special precautions are necessary if used correctly.

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• Information about protection against explosions and fires: The product is not flammable.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store at -15 to -25 °C
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · 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.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Suitable respiratory protective device recommended.
- Protection of hands:
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

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

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Natural rubber, NR Nitrile rubber, NBR

- Eye protection: Safety glasses
- · Body protection: Protective work clothing

Information on basic physica General Information	l and chemical properties	
Appearance:		
Form:	Solution	
Color:	Red	
Odor:	Odorless	
<i>pH-value at 20 °C (68 °F):</i>	7	
Change in condition		
Melting point/Melting rang	e: Undetermined.	
		(Contd. on page

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	(Contd. of page 3)
Boiling point/Boiling range:	> 100 °C (> 212 °F)
· 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:	Fully miscible.
• Solvent content: Organic solvents:	0.0 %
Solids content: • Other information	21.0 % No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· 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.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.

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Safety Data Sheet acc. to OSHA HCS

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· Behavior in environmental systems:

- *Bioaccumulative potential* No further relevant information available.
- *Mobility in soil* No further relevant information available.
- \cdot Additional ecological information:
- \cdot General notes: Generally not hazardous for water
- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.
- \cdot Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
• Environmental hazards: • Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II oj MARPOL73/78 and the IBC Code	f Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

- Section 355 (extremely hazardous substances):
- None of the ingredients is listed.
- · Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

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TSCA (Touis Substances Contra	(Contd. of page
TSCA (Toxic Substances Contro All ingredients are listed.	<i>n Act):</i>
~	
Proposition 65	
None of the ingredients is listed.	
Chemicals known to cause canc	er:
None of the ingredients is listed.	
Chemicals known to cause repre	
None of the ingredients is listed.	
Chemicals known to cause repro	oductive toxicity for males:
None of the ingredients is listed.	
Chemicals known to cause deve	
None of the ingredients is listed.	
Cancerogenity categories	
EPA (Environmental Protection	Agency)
None of the ingredients is listed.	
TLV (Threshold Limit Value est	tablished by ACGIH)
None of the ingredients is listed.	
NIOSH-Ca (National Institute f	for Occupational Safety and Health)
None of the ingredients is listed.	
GHS label elements The product is classified and lab Hazard pictograms GHS08 Signal word Danger	eled according to the Globally Harmonized System (GHS).
Hazard-determining component imidazole Hazard statements May damage fertility or the unbo Precautionary statements	
Obtain special instructions befor Do not handle until all safety pro Wear protective gloves/protectiv IF exposed or concerned: Get ma	ecautions have been read and understood. ee clothing/eye protection/face protection.
	accordance with local/regional/national/international regulations. Chemical Safety Assessment has not been carried out.

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 SDS: Product safety department
- Contact: +49 6221 13840-35
- Date of preparation / last revision 05/04/2018 / 2
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

- ICAO: International Civil Aviation Organisation PBT: persistent, bioaccumulative, toxic substance (REACH)
- *vPvB: very persistent, very bioaccumulative substance (REACH)*
- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

CLP: Regulation on classification, labelling and packaging of substances and mixtures

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Repr. 1: Reproductive toxicity – Category 1	
	US