

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.12.2011

Version number 1

Revision: 15.12.2011

## 1 Identification of the substance/mixture and of the company/undertaking

### · 1.1. Product identifier

- Trade name: **SERVA Violet 17 Tablets**
- Synonyma *Acid violet 17 (C.I. 42650); COOMASSIE® Violet R-150*

SERVA

Electrophoresis

- Article number: 35075

- CAS Number:

4129-84-4

- EC number:

223-942-6

### · 1.2. Relevant identified uses of the substance or mixture and uses advised against

- Application of the substance / the preparation *Laboratory chemicals*

### · 1.3. Details of the supplier of the safety data sheet

#### · Manufacturer/Supplier:

SERVA Electrophoresis GmbH

Carl-Benz-Str. 7

D-69115 Heidelberg

Tel.: +49 6221 13840-0

FAX: +49 6221 13840-10

msds.info@serva.de

- Information department: Product Safety department Tel.: +49 6221 13840-35

- 1.4. Emergency telephone number: +49 6131 19240 (university hospital Mainz)

## 2 Hazards identification

### · 2.1. Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008



GHS09

*Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.*

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



N; Dangerous for the environment

*R51/53: 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.*

### · 2.2. Label elements

- Labelling according to Regulation (EC) No 1272/2008

*The substance is classified and labelled according to the CLP regulation.*

- Hazard pictograms GHS09

- Signal word *Void*

#### · Hazard statements

*H411 Toxic to aquatic life with long lasting effects.*

#### · Precautionary statements

*P273 Avoid release to the environment.*

*P391 Collect spillage.*

*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

### · 2.3. Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

(Contd. on page 2)

GB

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(Contd. of page 1)

· **vPvB:** Not applicable.**3 Composition/information on ingredients**· **3.1. Chemical characterization: Substances**· **CAS No. Description:**

4129-84-4 hydrogen [4-[[4-(diethylamino)phenyl][4-[ethyl(3-sulphonatobenzyl)amino]phenyl]methylene]cyclohexa-2,5-dien-1-ylidene](ethyl)(3-sulphonatobenzyl)ammonium, sodium salt

· **Identification number(s):**· **EC number:** 223-942-6**4 First aid measures**· **4.1. Description of first aid measures**· **After inhalation** Supply fresh air; consult doctor in case of complaints.· **After skin contact** Immediately wash with water and soap and rinse thoroughly.· **After eye contact** Rinse opened eye for several minutes under running water.· **After swallowing** Drink copious amounts of water and provide fresh air. Call for doctor immediately.· **Information for doctor**· **4.2. Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3. Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5 Firefighting measures**· **5.1. Extinguishing media**· **Suitable extinguishing agents**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.· **5.2. Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Nitrogen oxides (NO<sub>x</sub>)Sulphur dioxide (SO<sub>2</sub>)· **5.3. Advice for firefighters**· **Protective equipment:** Mount respiratory protective device.**6 Accidental release measures**· **6.1. Personal precautions, protective equipment and emergency procedures** Wear protective clothing.· **6.2. Environmental precautions:**

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

Do not allow to enter sewers/ surface or ground water.

· **6.3. Methods and material for containment and cleaning up:** Pick up mechanically.· **6.4. Reference to other sections**

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**7 Handling and storage**· **Handling**· **7.1. Precautions for safe handling** Prevent formation of dust.· **Information about protection against explosions and fires:** No special measures required.

(Contd. on page 3)

**Safety data sheet**  
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(Contd. of page 2)

- **7.2. Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in dry conditions.
- **7.3. 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.
- **8.1. Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **8.2. Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures** Wash hands before breaks and at the end of work.
- **Breathing equipment:**  
Short term filter device:  
Filter P3.
- **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.
- **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.
- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**  
Neoprene gloves
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

## 9 Physical and chemical properties

- **9.1. Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Powder
<b>Colour:</b>	Dark blue
<b>Odour:</b>	Odourless
- **pH-value (100 g/l) at 20°C:** 7
- **Change in condition**

<b>Melting point/Melting range:</b>	undetermined
<b>Boiling point/Boiling range:</b>	undetermined
- **Flash point:** Not applicable
- **Flammability (solid, gaseous)** Product is not flammable.

(Contd. on page 4)

**Safety data sheet**  
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(Contd. of page 3)

- |                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| · <b>Danger of explosion:</b>             | Product does not present an explosion hazard. |
| · <b>Density:</b>                         | Not determined                                |
| · <b>Solubility in / Miscibility with</b> |                                               |
| <b>Water at 20°C:</b>                     | 100 g/l                                       |
| <b>Organic solvents:</b>                  | 0.0 %                                         |
| · <b>VOC %:</b>                           | 0.00 %                                        |
| · <b>9.2. Other information</b>           | No further relevant information available.    |

### 10 Stability and reactivity

- **10.1. Reactivity**
- **10.2. Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3. Possibility of hazardous reactions** No dangerous reactions known
- **10.4. Conditions to avoid** No further relevant information available.
- **10.5. Incompatible materials:** No further relevant information available.
- **10.6. Hazardous decomposition products:** No dangerous decomposition products known

### 11 Toxicological information

- **11.1. Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

4129-84-4 Acid Violet 17

Oral LD50 &gt; 5000 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

### 12 Ecological information

- **12.1. Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **12.2. Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **12.3. Bioaccumulative potential** No further relevant information available.
- **12.4. Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water danger class 3 (German Regulation) (Assessment by list): extremely hazardous for water.  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **12.5. Results of PBT and vPvB assessment**
- **PBT:** PBT - assessment not available.
- **vPvB:** vPvB - assessment not available.

(Contd. on page 5)

GB

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(Contd. of page 4)

· 12.6. Other adverse effects No further relevant information available.

**13 Disposal considerations**

## · 13.1. Waste treatment methods

## · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

## · Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

**14 Transport information**

## · 14.1. UN-Number

· ADR, IMDG, IATA

UN3077

## · 14.2. UN proper shipping name

· ADR

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (hydrogen [4-[[4-(diethylamino)phenyl][4-ethyl(3-sulphonatobenzyl)amino]phenyl]methylene]cyclohexa-2,5-dien-1-ylidene)(ethyl)(3-sulphonatobenzyl)ammonium, sodium salt)

· IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (hydrogen [4-[[4-(diethylamino)phenyl][4-ethyl(3-sulphonatobenzyl)amino]phenyl]methylene]cyclohexa-2,5-dien-1-ylidene)(ethyl)(3-sulphonatobenzyl)ammonium, sodium salt)

· IATA

Environmentally hazardous substance, solid, n.o.s. (hydrogen [4-[[4-(diethylamino)phenyl][4-ethyl(3-sulphonatobenzyl)amino]phenyl]methylene]cyclohexa-2,5-dien-1-ylidene)(ethyl)(3-sulphonatobenzyl)ammonium, sodium salt)

## · 14.3. Transport hazard class(es)

· ADR, IATA



· Class

9 Miscellaneous dangerous substances and articles.

· Label

9

· IMDG



· Class

9 Miscellaneous dangerous substances and articles.

· Label

9

## · 14.4. Packing group

· ADR, IMDG, IATA

III

## · 14.5. Environmental hazards:

· Marine pollutant:

No

· Special marking (ADR):

Symbol (fish and tree)

(Contd. on page 6)

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(Contd. of page 5)

· <b>Special marking (IATA):</b>	Symbol (fish and tree)
· <b>14.6. Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles.
· <b>Danger code (Kemler):</b>	90
· <b>EMS Number:</b>	F-A,S-F
· <b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Tunnel restriction code</b>	E
· <b>UN "Model Regulation":</b>	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

### 15 Regulatory information

- **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Water hazard class:** Water danger class 3 (Assessment by list): extremely hazardous for water.
- **15.2. Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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:** Product safety department

· **Contact:** +49 6221 13840-35

- **Abbreviations and acronyms:**

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)

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- **\* Data compared to the previous version altered.**