

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 27.06.2012

Version number 1

Revision: 27.06.2012

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

- **1.1. Product identifier**
- **Trade name:** Fast Red TR-salt
- **Article number:** 21317
- **CAS Number:**
51503-28-7
- **EC number:**
257-247-4
- **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)

SERVA
Electrophoresis

*** 2 Hazards identification**

- **2.1. Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08

Carc. 1A H350 May cause cancer.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

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



T; Toxic

R45: May cause cancer.



Xn; Harmful

R22: Harmful if swallowed.



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

- **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.

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· Hazard pictograms GHS07, GHS08

· Signal word Danger

· Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H350 May cause cancer.

H335 May cause respiratory irritation.

· Precautionary statements

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

· 2.3. Other hazards

· Results of PBT and vPvB assessment

· PBT: PBT - assessment not available.

· vPvB: vPvB - assessment not available.

3 Composition/information on ingredients

· 3.1. Chemical characterization: Substances

· CAS No. Description:

51503-28-7 4-chloro-2-methylbenzenediazonium 1,5-naphthalenedisulphonate

· Identification number(s):

· EC number: 257-247-4

· Impurities and stabilising additives:

CAS: 67-56-1

methanol

EINECS: 200-659-6

 T R23/24/25-39/23/24/25;  F R11

 Flam. Liq. 2, H225;  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331;  STOT SE 1, H370

· Description:

· Empirical formula: $C_{17}H_{13}ClN_2O_6S_2$

· MW: 440,9

4 First aid measures

· 4.1. Description of first aid measures

· General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· 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. If symptoms persist, consult doctor.

· 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.

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- **4.3. Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

*	5 Firefighting measures
	<ul style="list-style-type: none"> · 5.1. Extinguishing media · Suitable extinguishing agents CO₂, 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_x) Sulphur dioxide (SO₂) Hydrogen chloride (HCl) Carbon monoxide and carbon dioxide · 5.3. Advice for firefighters · Protective equipment: Wear self-contained respiratory protective device.

*	6 Accidental release measures
	<ul style="list-style-type: none"> · 6.1. Personal precautions, protective equipment and emergency procedures Wear protective clothing. · 6.2. Environmental precautions: Do not allow to enter sewers/ surface or ground water. · 6.3. Methods and material for containment and cleaning up: Pick up mechanically. Dispose contaminated material as waste according to item 13. · 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
	<ul style="list-style-type: none"> · Handling · 7.1. Precautions for safe handling Open and handle receptacle with care. Prevent formation of dust. · Information about protection against explosions and fires: Keep respiratory protective device available. · 7.2. Conditions for safe storage, including any incompatibilities · Storage · Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles. · Information about storage in one common storage facility: Store away from oxidizing agents. · Further information about storage conditions: Store under lock and key and with access restricted to technical experts or their assistants only. Protect from exposure to the light. · 7.3. Specific end use(s) No further relevant information available.

*	8 Exposure controls/personal protection
	<ul style="list-style-type: none"> · 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.

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· 8.2. Exposure controls**· 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.**Store protective clothing separately.***· Breathing equipment:***Short term filter device:**Filter P3.***· Protection of hands:***Protective gloves.**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**Nitrile rubber, NBR**Chloroprene rubber, CR***· 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:***Form:* Crystalline powder*Colour:* white to light yellow**· Odour:** Odourless**· Odour threshold:** Not determined.**· pH-value (10 g/l) at 20°C:** ~ 4**· Change in condition***Melting point/Melting range:* undetermined*Boiling point/Boiling range:* undetermined**· Flash point:** Not applicable**· Flammability (solid, gaseous)** Product is not flammable.**· Ignition temperature:***Decomposition temperature:* > 110°C**· Self igniting:** Not determined.**· Danger of explosion:** Product does not present an explosion hazard.**· Explosion limits:***Lower:* Not determined.

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Upper:	Not determined.
. Vapour pressure:	Not applicable.
. Density:	Not determined
. Relative density	Not determined.
. Vapour density	Not applicable.
. Evaporation rate	Not applicable.
. Solubility in / Miscibility with Water at 20°C:	280 g/l
. Segregation coefficient (n-octanol/water):	Not determined.
. Viscosity:	
dynamic:	Not applicable.
kinematic:	Not applicable.
. 9.2. Other information	No further relevant information available.

10 Stability and reactivity

- **10.1. Reactivity** No further relevant informations available
- **10.2. Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3. Possibility of hazardous reactions** Reacts with strong oxidizing agents
- **10.4. Conditions to avoid** No further relevant information available.
- **10.5. Incompatible materials:** No further relevant information available.
- **10.6. Hazardous decomposition products:**
 - Carbon monoxide and carbon dioxide
 - Nitrogen oxides (NO_x)
 - Sulphur oxides (SO_x)
 - Hydrogen chloride (HCl)

11 Toxicological information

- **11.1. Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Other information (about experimental toxicology):**
To the best of our knowledge this material has not been thoroughly investigated.
- **Additional toxicological information:**
R 45 - Classification according to TRGS 905: azo dyes, which may release carcinogenic amines.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Carc. 1A

12 Ecological information

- **12.1. Toxicity**
- **Aquatic 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.

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- **Additional ecological information:**
- **General notes:**
 - Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water.
 - Do not allow product to reach ground water, water course or sewage system.
 - Danger to drinking water if even small quantities leak into the ground.
- **12.5. Results of PBT and vPvB assessment**
- **PBT:** PBT - assessment not available.
- **vPvB:** vPvB - assessment not available.
- **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, ADN, IMDG, IATA	Void
· 14.2. UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· 14.3. Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	Void
· Label	-
· ADN/R Class:	Void
· 14.4. Packing group	
· ADR, IMDG, IATA	Void
· 14.5. Environmental hazards:	
· Marine pollutant:	No
· 14.6. Special precautions for user	Not applicable.
· 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

* **15 Regulatory information**

- **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Technical instructions (air):**

Class	Share in %
I	80-100

- **Water hazard class:** Water hazard class 2 (Assessment by list): hazardous for water.

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- **15.2. Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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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)

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

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