Printing date 05/03/2018

Reviewed on 09/10/2009

Identification	
Product identifier	SFR\/A
Trade name: 2-Thiobarbituric acid	serving scientists
Article number: 36108	
CAS Number:	
504-17-6	
EC number:	
207-985-8 Application of the substance / the mixture Laboratory chemical	
	.5
Details of the supplier of the safety data sheet	\sim
Manufacturer/Supplier: SERVA Electrophoresis GmbH	
Carl-Benz-Str. 7	
D-69115 Heidelberg	. 65
Tel.: +49 6221 13840-0	
FAX: +49 6221 13840-10	~?
msds.info@serva.de	
Information department: Product Safety department Tel.: +49 6	5221 13840-35
Emergency telephone number:	
Medical Emergency Information in case of poisoning:	
Poison Information Center Mainz - Phone: +49 (0) 6131 19240	
(advisory service in German or English language)	
· · · · ·	
Hazard(s) identification	
<i>Classification of the substance or mixture</i> <i>The substance is not classified according to the Globally Harmo</i>	nized System (GHS).
Label elements	
GHS label elements Void	
Hazard pictograms Void Signal word Void	
Hazard statements Void	
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 0	
$\begin{array}{c} 0 \\ 0 \\ Fire = 0 \end{array}$	
$\begin{array}{c} 0 \\ 0 \\ Reactivity = 0 \end{array}$	
HMIS-ratings (scale 0 - 4)	
HMIS-ratings (scale $0 - 4$) HEALTH 0 Health = 0	
HEALTH \bigcirc $Health = 0$ FIRE \bigcirc $Fire = 0$	
HEALTH O $Health = 0$	
HEALTH \bigcirc $Health = 0$ FIRE \bigcirc $Fire = 0$ REACTIVITY \bigcirc $Reactivity = 0$ Other hazards	
HEALTH I Health = 0 FIRE I Fire = 0 REACTIVITY Reactivity = 0 Other hazards Results of PBT and vPvB assessment	
HEALTH \bigcirc $Health = 0$ FIRE \bigcirc $Fire = 0$ REACTIVITY \bigcirc $Reactivity = 0$ Other hazards	

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Trade name: 2-Thiobarbituric acid

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3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description 504-17-6 2-thiobarbituric acid
- Identification number(s)
- EC number: 207-985-8
- · Description:
- Empirical formula: $C_4 H_4 N_2 O_2 S$
- · MW: 144.20

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 wash with water and soap and rinse thoroughly.
- 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 Coughing
- Breathing difficulty
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
- CO_2 , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture
- In case of fire, the following can be released: Nitrogen oxides (NOx) Sulphur dioxide (SO2)
- Carbon monoxide and carbon dioxide
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- \cdot Methods and material for containment and cleaning up: Pick up mechanically.
- Reference to other sections No dangerous substances are released.

7 Handling and storage

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

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- · 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: Keep receptacle tightly sealed. Store in dry conditions.
- *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: Not required.
- 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.

· 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.

 \cdot 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

Powder Cream colored	
Cream colored	
Cream colorea	
Unpleasant	
g range: 240 - 255 °C (464 - 491 °F)	
grange: Undetermined.	
Not applicable.	
aseous): Product is not flammable.	
	(Contd. on page
	g range: 240 - 255 °C (464 - 491 °F) range: Undetermined. Not applicable.

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	(Contd. of page 3)
• Danger of explosion:	Product does not present an explosion hazard.
· Density:	Not determined.
 Solubility in / Miscibility with Water at 20 °C (68 °F): Other information 	< 6 g/l 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 Reacts with strong oxidizing agents.
- \cdot Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Nitrogen oxides (NOx) Sulfur oxides (SOx) Carbon monoxide and carbon dioxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

Oral LD50 > 5000 mg/kg (rat)

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

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. The substance is not subject to classification.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

• Recommendation: Smaller quantities can be disposed of with household waste.

· Uncleaned packagings:

• *Recommendation: Disposal must be made according to official regulations.*

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 of MARPOL73/78 and the IBC Code 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): Substance is not listed.

· Section 313 (Specific toxic chemical listings): Substance is not listed.

• TSCA (Toxic Substances Control Act): Substance is listed.

· Proposition 65 Substance is not listed.

· Chemicals known to cause cancer: Substance is not listed.

· Chemicals known to cause reproductive toxicity for females: Substance is not listed.

· Chemicals known to cause reproductive toxicity for males: Substance is not listed.

· Chemicals known to cause developmental toxicity: Substance is not listed.

· Cancerogenity categories

- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.

· GHS label elements Void

· Hazard pictograms Void

· Signal word Void

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• Hazard statements Void

· 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 SDS: Product safety department
- · Contact: +49 6221 13840-35
- · Date of preparation / last revision 05/03/2018 / 1
- · 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) 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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