

## 1. Identification of the substance/preparation and of the company

### Product details

**Trade Name:** Ponceau S solution

**Product Name:** Ponceau S solution

**Catalogue-No.:** M3350

### Manufacturer /Supplier:

Genaxxon BioScience GmbH, Beim Wiesental 22, 88400 Biberach/Germany.  
Tel.: +49 (0)7357 916377

### Further information available from:

Genaxxon BioScience GmbH, Beim Wiesental 22, 88400 Biberach/Germany.  
Tel.: +49 (0)7357 916377

### Information in case of emergency:

Poison Information Centre Mainz, Germany  
Tel.: +49 (0)6131 19240 / 24 h

**MSDS-No:** ponceau/1

**NOTE:** If this product is a kit or supplied with more than one material, please refer to the MSDS for each component for hazard information.

### Product Use:

This products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutics or other clinical uses.

## 2. Composition/information on ingredients

### Chemical characterisation

**Description:** Solution of different components for staining proteins on membranes

Product Name	Hazardous symbol	CAS #	EC no	Annex I / Index Number
Water		7732-18-5	231-791-2	none
Acetic Acid	C	64-19-7	205-788-1	607-002-00-6

## 3. Hazardous identification

**Hazard description:** Irritating to eyes, respiratory system and skin.

### Information concerning particular hazards for human and environment:

Not applicable.

**Classification system:** Inflammable, Causes heavy chemical burns.

## 4. First-aid measures

**After inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**After contact with skin:** Rinse immediately with plenty of water and seek medical advice. Remove contaminated clothing and shoes.

**After contact with eyes:** Rinse immediately with plenty of water and seek medical advice. Assure adequate flushing by separating eyelids with fingers.

**After swallowing:** If swallowed, wash out mouth with plenty of water provided person is conscious. Call for doctor immediately.

#### 5. Fire-fighting measures

**Suitable extinguishing agents:** Water Spray. Carbon Dioxide. Dry chemical powder or appropriate foam.

**Special risks:** Specific Hazard(s): Not inflammable. Fumes heavier than air. Emits toxic fumes (acetic acid) under fire conditions.

**Protective equipment (For firefighters):** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### 6. Accidental release measures

**Personal precaution procedures to be followed in case of leak or spill:** Don't breath fume/aerosole. Avoid direct contact. Ventilate area and wash spill site after material pick-up is complete.

**Person related safety precautions:** Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**Measures for environmental protection:** Avoid release to sewage system or environment.

**Measures for cleaning/collecting:** Absorb on sand or vermiculate and place in closed containers for waste disposal.

**Additional information:** Neutralise with diluted alkaline solution.

#### 7. Handling and storage

##### Handling

**Information for safe handling:** No special measures required.

**Information about fire – and explosion protection:** No special measures required.

##### Storage:

**Requirements to be met by storerooms and receptacles:** Keep bottles well closed.

**Information about storage in one common storage facility:** Keep bottles well closed.

**Further information about storage conditions:** Keep tightly closed. Store at RT.

**Special requirements:** No special measures required.

#### 8. Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

**Limit values for industrial safety:** MAC Acetic Acid: 10 ml/m<sup>3</sup>, respective 25 mg/m<sup>3</sup>

**Engineering controls:** Safety shower and eye bath.

**Personal protective equipment:** Respirator, chemical safety goggles, heavy rubber gloves.

**General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Use respirator.

**Protection of hands:** Heavy rubber gloves.

**Materials of gloves:** The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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

**Eye protection:** Tightly sealed goggles.



## 9. Physical and chemical properties

### General Information

<b>Form:</b>	Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	penetration smell

### Change in conditions

<b>Melting point/Melting range:</b>	No data available
<b>Boiling point/Boiling range:</b>	No data available

<b>Flash point:</b>	Not applicable
<b>Self-ignition:</b>	data not available
<b>Danger of explosion:</b>	data not available
<b>Density at 20°C:</b>	1.01 g/cm <sup>3</sup>
<b>Solubility in / Miscibility with water:</b>	soluble
<b>pH value at 20°C:</b>	ca. 2.5
<b>Log P(o/w):</b>	-0.17 (water free substance)

## 10. Stability and reactivity

**Thermal composition / conditions to be avoided:** Avoid strong heating.

**Materials to avoid:** Anhydrides, water, aldehydes, oxidating substances (e.g. Chrom(VI)-oxide (CrO<sub>3</sub>), potassium permanganate, perchloric acid, etc.), metals, alkali hydroxides, non-metal halogenides, ethanolamine.

**Dangerous decomposition products:** Carbon monoxide, Carbon dioxide, Nitrogen oxides.

**Hazardous Polymerisation:** Will not occur.

Additional Information: Non-compatible with different metals. Potentially explosive as fume/gas together with air.

## 11. Toxicological information

### Acute Toxicity

LD50 (oral – Rat):	3310 mg/kg (water free substance)
LD50 (derma. Rabbit):	1060 mg/kg (water free substance)

**Sensitisation:** No data available.

**Signs and Symptoms of Exposure:** No data available.

### Additional Toxicological Information

**Strong caustic substance.**

<b>After inhalation of fumes:</b>	Irritation of mucous membranes and upper respiratory tract.
<b>After skin contact:</b>	Irritation of skin
<b>After contact with eyes:</b>	Irritation of eyes
<b>After swallowing:</b>	Irritation of oesophagus

The product should be treated with usual precautions while handling chemicals.

# Material Safety Data Sheet

## According to 91/155EC

Ponceau-S solution

Printing Date: 22.03.2007

Reviewed on: 22.03.2007

### 12. Ecological Information

#### Biological Degradation

Biological Degradability: good (>70%). Good to eliminate.

BOD<sub>5</sub>: 0.88 g/g (waterfree substance); BOD 36% from TOD /5 d (waterfree substance)

Behaviour in environmental compartments:

Distribution: log P(o/w): -0.17 (waterfree substance). Bioaccumulation is not expected.

#### Ecotoxicological effects:

Biological effects: Toxic for water organisms. Harmful due to pH-shift.

Caustic also if diluted

Water organisms LC<sub>50</sub>: 10 – 100 mg/l /96 h (waterfree substance)

Toxicity on fish: *Leuciscus idus* LC<sub>50</sub>: 410 mg/L (waterfree substance)

Arthropodes: *Daphnia magna* LC<sub>50</sub>: 47 mg/L /24h (waterfree substance)

Toxicity on bacteria: *Pseudomonas putida* EC<sub>5</sub>: 2850 mg/L (waterfree substance)

Toxicity on algae: *Scenedesmus quadricauda* EC<sub>5</sub>: 4000 mg/L (waterfree substance)

Protozoa: *Entosiphon sulcatum* EC<sub>5</sub>: 78 mg/L (waterfree substance)

#### General notes:

If handled accordingly no ecological problems are expected.

### 13. Disposal considerations

#### Product:

**Recommendation:** Must not be disposed together with household garbage. Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

#### Uncleaned packaging:

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

**Recommended cleaning agents:** Water, if necessary together with cleansing agents.

### 14. Transport information

#### Land transport ADR/RID (cross border)

**ADR/RID class:** Non-hazardous for road transport.

#### Maritime transport IMDG:

**IMDG Class:** Non-hazardous for sea transport.

**Marine pollutant:** No

#### Air transport ICAO-TI and IATA-DGR:

**ICAO/IATA Class:** Non-hazardous for air transport.

### 15. Regulatory information

#### Labelling according to EU guidelines:

Indication of danger: Xi

R-Phrases: 36/37/38

Irritating to eyes, respiratory system and skin

S-Phrases: 26-36

Avoid contact with skin. Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, do not induce vomiting; seek medical advice immediately and show label.

**National Regulations:** Germany

**Waterhazard class:** Water hazard class 1 ( Self-assessment): slightly hazardous for water.

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**GENAXXON**  
b i o s c i e n c e

#### **16. Other information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Genaxxon BioScience GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.