



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 29.01.2009

Revision: 29.01.2009

* 1 Identification of substance:

- **Product details:** Reagent for water analysis
- **Product name:** Phenol red Rapid
- **Catalog number:** 00511799(BT), 511790(BT), 4511790(BT), (4)511791(BT), (4)511792(BT), 511793(0)
- **Supplier:**
Tintometer GmbH
Schleefstr. 8-12
DE - 44287 Dortmund
Made in Germany
- **Informing department:**
produktsicherheit@tintometer.de
Product Safety Department
- **Emergency information:**
Poison Center Berlin, Germany
phone: +49(0)30 19240

phone: +49 231 945100
e-mail: sales@tintometer.de

* 2 Hazards identification

- **Hazard designation:** void
- **Information pertaining to particular dangers for man and environment**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" (1999/45/EC) in the latest valid version.
- **GHS label elements** void

* 3 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Designation:**
7647-14-5 sodium chloride
- **Identification number(s):**
- **EINECS Number:** 231-598-3

* 4 First aid measures

- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes (at least 10 min) under running water.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
In case of persistent symptoms consult doctor.
- **The following symptoms may occur:**
After swallowing of large amounts:
sickness
vomiting

(Contd. on page 2)

GB

Safety Data Sheet

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Product name: Phenol red Rapid

(Contd. of page 1)

breathing difficulty

5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Ambient fire may liberate hazardous vapours.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter drains.

* 6 Accidental release measures

- **Person-related safety precautions:** Avoid causing dust.
- **Measures for environmental protection:** Do not allow product to reach sewage system or water bodies.
- **Measures for cleaning/collecting:**
Dispose of contaminated material as waste according to item 13.
Collect mechanically.
Ensure adequate ventilation.
- **Additional information:** No dangerous materials are released.

* 7 Handling and storage

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** The product is not flammable
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Protect from heat and direct sunlight.
Store under dry conditions.
Protect from humidity and keep away from water.
Protect from the effects of light.
- **Recommended storage temperature:** 20°C +/- 3°C

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures** Do not eat, drink or smoke while working.
- **Breathing equipment:** Use breathing protection against the effects of fumes/dust/aerosol.
- **Recommended filter device for short term use:** Filter P1
- **Protection of hands:**
After use of gloves apply skin-cleaning agents and skin cosmetics.
Preventive skin protection by use of skin-protecting agents is recommended.

(Contd. on page 3)

Safety Data Sheet

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Revision: 29.01.2009

Product name: Phenol red Rapid

(Contd. of page 2)

- **Material of gloves**
nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.11 mm
- **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.
Value for the permeation: Level ≥ 6 (480 min)
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

* 9 Physical and chemical properties:

| | |
|--|-----------------------------|
| · Form: | Tablets |
| · Colour: | Orange |
| · Odour: | Odourless |
| · Melting point/Melting range: | 801°C |
| · Boiling point/Boiling range: | 1461°C |
| · Flash point: | Not applicable |
| · Inflammability (solid, gaseous) | Product is not inflammable. |
| · Danger of explosion: | Product is not explosive. |
| · Density at 20°C | 2.16 g/cm ³ |
| · Settled apparent density at 20°C | ~ 1140 kg/m ³ |
| · Solubility in / Miscibility with Water at 20°C: | 358 g/l |
| · pH-value (12.8 g/l) at 20°C: | 5.2 |
| · Organic solvents: | 0.0 % |
| · Solids content: | 100.0 % |

* 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **Materials to be avoided:**
alkali metals
--> forms heat
- **Dangerous reactions** Reacts with alkaline metals
- **Dangerous products of decomposition:** see chapter 5

* 11 Toxicological information

- **Acute toxicity:**

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

7647-14-5 sodium chloride

| | | |
|--------|------|------------------------|
| Oral | LD | 12 mg/kg (child) |
| | LD50 | 3000 mg/kg (rat) |
| Dermal | LD50 | > 10000 mg/kg (rabbit) |

- **Primary irritant effect:**
- **on the skin:** temporary erythema possible
- **on the eye:** Irritant effect.

(Contd. on page 4)

Safety Data Sheet

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Printing date 29.01.2009

Revision: 29.01.2009

Product name: Phenol red Rapid

(Contd. of page 3)

- **Sensitization:** No sensitizing effect 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 material is not subject to classification according to EC lists in the last version.
The usual precautionary measures should be adhered to general rules for handling chemicals.
 - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
CAS-No. 7647-14-5:
Bacterial mutagenicity: Ames test - negative (IUCLID)
-

12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** Methods for the determination of biodegradability are not applicable to inorganic substances.
- **Ecotoxicological effects:**

| | |
|----------------------------------|-------------------------------------|
| · Acquatic toxicity: | |
| 7647-14-5 sodium chloride | |
| EC50 | 1000 mg/l/48h (Daphnia magna) |
| LC50 | 7650 mg/l/96h (Pimephales promelas) |

| | |
|----------------------------------|-------------------------------------|
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| EC50 | 1000 mg/l/48h (Daphnia magna) |
| LC50 | 7650 mg/l/96h (Pimephales promelas) |

- **General notes:**
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralized.
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*13 Disposal considerations

- **Product:**
- **Recommendation**
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

| | |
|-----------------------------------|--|
| · European waste catalogue | |
| 16 05 09 | discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08 |

- **Uncleaned packagings:**
 - **Recommendation:** Disposal must be made according to official regulations.
 - **Recommended cleaning agent:** Water, if necessary with cleaning agent.
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14 Transport information

| | |
|--|----|
| · Land transport ADR/RID (cross-border) | |
| · ADR/RID-GGVS/E Class: - | |
| · Maritime transport IMDG: | |
| · IMDG Class: | - |
| · Marine pollutant: | No |
| · Air transport ICAO-TI and IATA-DGR: | |
| · ICAO/IATA Class: | - |
| · UN "Model Regulation": - | |

(Contd. on page 5)

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(Contd. of page 4)

· **Transport/Additional information:** Not dangerous according to the above specifications.

* 15 Regulatory information

· **Designation according to EC guidelines:**

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

· **National regulations**

· **Information about limitation of use:** Not required.

* 16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**

EC50: effective concentration, 50 percent (in vivo)

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

RID: Règlement internationale 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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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)

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· **Sources**

NTP (National Toxicology Program)

IUCLID (International Uniform Chemical Information Database)

GESTIS-Stoffdatenbank

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