

TON R3, TON R3L

Date 1.12.2011

Previous date: 3.5.2011

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****1.1.1 Commercial Product Name**

TON R3, TON R3L

1.1.2 Product code984371, 984372

(*)

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Recommended use**

For general laboratory purposes.

1.3 Details of the supplier of the safety data sheet**1.3.1 Supplier**

Thermo Fisher Scientific Oy, Clinical Diagnostics Finland

Ratastie 2, P.O.Box 100

FI-01621 Vantaa

FINLAND

+358-9-329 100

+358-9-3291 0300

FI0921547-0

Email

info.cdx.fi@thermofisher.com

1.4 Emergency telephone number**2. HAZARDS IDENTIFICATION**

In accordance with Directive 1999/45/EC, the product does not need to be classified nor labelled.

2.1 Classification of the substance or mixture**67/548/EEC - 1999/45/EC**

-; R

2.2 Label elements**67/548/EEC - 1999/45/EC****2.3 Other hazards**

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3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components****CAS/EC and Reg. number**

7664-38-2

Chemical name of the substance

phosphoric acid ... %

Concentration Classification

5-9.5%

C; R34

3.3 Other information

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4. FIRST AID MEASURES**4.1 Description of first aid measures**

Show this safety data sheet to the doctor in attendance.

4.1.2 Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention immediately if symptoms occur. Keep patient warm and at rest.

4.1.3 Skin contact

Rinse with plenty of water.

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- 4.1.4 Eye contact**
Rinse with plenty of water.
- 4.1.5 Ingestion**
Consult a physician if necessary.
- 4.2 Most important symptoms and effects, both acute and delayed**
no data available
- 4.3 Indication of immediate medical attention and special treatment needed**
no data available

5. FIREFIGHTING MEASURES

- 5.1 Extinguishing media**
- 5.1.1 Suitable extinguishing media**
Carbon dioxide (CO₂), Foam, Water
- 5.1.2 Extinguishing media which must not be used for safety reasons**
no data available
- 5.2 Special hazards arising from the substance or mixture**
no data available
- 5.3 Advice for firefighters**
no data available
- 5.4 Specific methods**
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6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment.
- 6.2 Environmental precautions**
Flush with plenty of water. Do not flush into surface water or sanitary sewer system.
- 6.3 Methods and materials for containment and cleaning up**
Soak up with inert absorbent material and dispose of as hazardous waste.
- 6.4 Reference to other sections**
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7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Wear personal protective equipment.
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep at temperatures between 2 and 8 °C.
- 7.3 Specific end use(s)**
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
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- 8.1.1 Threshold limits**
- | | | | |
|-----------|-----------------|---------------------------|------------------------------|
| 7664-38-2 | Phosphoric acid | 1 mg/m ³ (8 h) | 2 mg/m ³ (15 min) |
|-----------|-----------------|---------------------------|------------------------------|
- 8.1.2 Other information on limit values**
no data available

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- 8.1.3 Limit values in other countries**
no data available
- 8.1.4 DNELs**
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- 8.1.5 PNECs**
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- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls**
Wear protective gloves. Avoid contact with the skin and the eyes.
- 8.2.2 Individual protection measures**
- 8.2.2.1 Respiratory protection**
No personal respiratory protective equipment normally required.
- 8.2.2.2 Hand protection**
Impervious gloves
- 8.2.2.3 Eye protection**
Safety Glasses
- 8.2.2.4 Skin and body protection**
Lab coat
- 8.2.3 Environmental exposure controls**
no data available

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Important Health Safety and Environmental Information**
- 9.1.1 Appearance**
liquid
- 9.1.2 Odour** no data available
- 9.1.3 Odour threshold** no data available
- 9.1.4 pH** no data available
- 9.1.5 Melting point/freezing point** no data available
- 9.1.6 Initial boiling point and boiling range** 100 °C
- 9.1.7 Flash point** no data available
- 9.1.8 Evaporation rate** no data available
- 9.1.9 Flammability (solid, gas)** not auto-flammable
- 9.1.10 Explosive properties**
- 9.1.10.1 Lower explosion limit** no data available
- 9.1.10.2 Upper explosion limit** no data available
- 9.1.11 Vapour pressure** not determined
- 9.1.12 Vapour density** no data available
- 9.1.13 Relative density** no data available
- 9.1.14 Solubility(ies)**
- 9.1.14.1 Water solubility** completely soluble
- 9.1.14.2 Fat solubility (solvent - oil to be specified)** no data available
- 9.1.15 Partition coefficient: n-octanol/water** no data available
- 9.1.16 Auto-ignition temperature** no data available
- 9.1.17 Decomposition temperature** no data available
- 9.1.18 Viscosity** no data available
- 9.1.19 Explosive properties** no data available
- 9.1.20 Oxidising properties** no data available

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9.2 Other information

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10. STABILITY AND REACTIVITY

- 10.1 Reactivity**
no data available
- 10.2 Chemical stability**
no data available
- 10.3 Possibility of hazardous reactions**
no data available
- 10.4 Conditions to avoid**
no data available
- 10.5 Incompatible materials**
no data available
- 10.6 Hazardous decomposition products**
No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
- 11.1.1 Acute toxicity**
no data available
- 11.1.2 Irritation and corrosion**
no data available
- 11.1.3 Sensitisation**
No sensitisation responses were observed.
- 11.1.4 Subacute, subchronic and prolonged toxicity**
no data available
- 11.1.5 STOT-single exposure**
no data available
- 11.1.6 STOT-repeated exposure**
no data available
- 11.1.7 Aspiration hazard**
no data available
- 11.1.8 Other information on acute toxicity**
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12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**
slightly water endangering
- 12.1.2 Toxicity to other organisms**
no data available
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**
no data available
- 12.2.2 Chemical degradation**
no data available
- 12.3 Bioaccumulative potential**
no data available

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- 12.4 Mobility in soil**
no data available
- 12.5 Results of PBT and vPvB assessment**
no data available
- 12.6 Other adverse effects**
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13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
The product has to be disposed of as laboratory chemical in accordance with local regulations.
- 13.2 Waste from residues / unused products**
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14. TRANSPORT INFORMATION

- 14.1 UN number** UN 1805
- 14.2 UN proper shipping name** Phosphoric Acid Solution
- 14.3 Transport hazard class(es)** 8
- 14.4 Packing group** III
- 14.5 Environmental hazards**
no data available
- 14.6 Special precautions for users**
no data available
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
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15. REGULATORY INFORMATION

In accordance with Directive 1999/45/EC, the product does not need to be classified nor labelled.

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
no data available
- 15.2 Chemical safety assessment**
no data available

16. OTHER INFORMATION

- 16.3 Key literature references and sources for data**
The SDS of the manufacturer.
This product has been evaluated in accordance with the directives 1967/548/EEC, 1999/45/EC and 2001/58/EC.
IATA Dangerous Goods Regulations
- 16.4 Classification procedure**
In accordance with Directive 1999/45/EC, the product does not need to be classified nor labelled.
- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**
R34 Causes burns.
- 16.6 Training advice**
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- 16.7 Recommended restrictions**
no data available
- 16.8 Additional information available from:**

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Code of the Safety Data Sheet: D10178-02-01-SDS-TON R3-EN

Corporation mentioned in point 1.3.

The information in this datasheet is to our best knowledge correct and complete, and is offered in good faith as accurate. It characterizes the product with regard to the appropriate safety precautions. It does not guarantee properties of the product.

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