

**Phosphate R1, Phosphate R1L**

Date 2.5.2011

Previous date: -

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

Phosphate R1, Phosphate R1L

**1.1.2 Product code**

984366, 984367

**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**

The product is classified as dangerous in accordance with Directive 1999/45/EC.

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

C; R35

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

C Corrosive

**R-phrases(s)**

R35 Causes severe burns.

**S-phrases(s)**

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S30 Never add water to this product.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**2.3 Other hazards**

-

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

7664-93-9

**Chemical name of the substance**

Sulfuric acid

**Concentration Classification**

15-20%

C; R35

**3.3 Other information**

-

**Phosphate R1, Phosphate R1L**

Date 2.5.2011

Previous date: -

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

-

**4.1.2 Inhalation**

Move to fresh air. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.

**4.1.3 Skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**4.1.4 Eye contact**

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**4.1.5 Ingestion**

If symptoms persist, call a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

-

**4.3 Indication of immediate medical attention and special treatment needed**

-

**5. FIREFIGHTING MEASURES****5.1 Extinguishing media****5.1.1 Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>), Foam, Water**5.1.2 Extinguishing media which must not be used for safety reasons**

-

**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**

-

**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**

-

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep at temperatures between 2 and 8 °C.

**7.3 Specific end use(s)**

-

**Phosphate R1, Phosphate R1L**

Date 2.5.2011

Previous date: -

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>8.1</b>	<b>Control parameters</b>		
<b>8.1.1</b>	<b>Threshold limits</b>		
	7664-93-9 Sulfuric acid	0.2 mg/m <sup>3</sup> (8 h)	1 mg/m <sup>3</sup> (15 min)
<b>8.1.2</b>	<b>Other information on limit values</b>		
	no data available		
<b>8.1.3</b>	<b>Limit values in other countries</b>		
	no data available		
<b>8.1.4</b>	<b>DNELs</b>		
	-		
<b>8.1.5</b>	<b>PNECs</b>		
	-		
<b>8.2</b>	<b>Exposure controls</b>		
<b>8.2.1</b>	<b>Appropriate engineering controls</b>		
	Avoid contact with skin and eyes.		
<b>8.2.2</b>	<b>Individual protection measures</b>		
<b>8.2.2.1</b>	<b>Respiratory protection</b>		
	No personal respiratory protective equipment normally required.		
<b>8.2.2.2</b>	<b>Hand protection</b>		
	Impervious gloves		
<b>8.2.2.3</b>	<b>Eye protection</b>		
	Goggles		
<b>8.2.2.4</b>	<b>Skin and body protection</b>		
	Lab coat		
<b>8.2.3</b>	<b>Environmental exposure controls</b>		
	no data available		

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>9.1</b>	<b>Important Health Safety and Environmental Information</b>	
<b>9.1.1</b>	<b>Appearance</b>	
	liquid	
<b>9.1.2</b>	<b>Odour</b>	no data available
<b>9.1.3</b>	<b>Odour threshold</b>	no data available
<b>9.1.4</b>	<b>pH</b>	no data available
<b>9.1.5</b>	<b>Melting point/freezing point</b>	no data available
<b>9.1.6</b>	<b>Initial boiling point and boiling range</b>	100 °C
<b>9.1.7</b>	<b>Flash point</b>	no data available
<b>9.1.8</b>	<b>Evaporation rate</b>	no data available
<b>9.1.9</b>	<b>Flammability (solid, gas)</b>	not auto-flammable
<b>9.1.10</b>	<b>Explosive properties</b>	
<b>9.1.10.1</b>	<b>Lower explosion limit</b>	no data available
<b>9.1.10.2</b>	<b>Upper explosion limit</b>	no data available
<b>9.1.11</b>	<b>Vapour pressure</b>	not determined
<b>9.1.12</b>	<b>Vapour density</b>	no data available
<b>9.1.13</b>	<b>Relative density</b>	not determined
<b>9.1.14</b>	<b>Solubility(ies)</b>	
<b>9.1.14.1</b>	<b>Water solubility</b>	no data available
<b>9.1.14.2</b>	<b>Fat solubility (solvent - oil to be specified)</b>	no data available

**Phosphate R1, Phosphate R1L**

Date 2.5.2011

Previous date: -

<b>9.1.15</b>	<b>Partition coefficient: n-octanol/water</b>	no data available
<b>9.1.16</b>	<b>Auto-ignition temperature</b>	no data available
<b>9.1.17</b>	<b>Decomposition temperature</b>	no data available
<b>9.1.18</b>	<b>Viscosity</b>	no data available
<b>9.1.19</b>	<b>Explosive properties</b>	no data available
<b>9.1.20</b>	<b>Oxidising properties</b>	no data available
<b>9.2</b>	<b>Other information</b>	
	-	

**10. STABILITY AND REACTIVITY**

<b>10.1</b>	<b>Reactivity</b>	no data available
<b>10.2</b>	<b>Chemical stability</b>	no data available
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	no data available
<b>10.4</b>	<b>Conditions to avoid</b>	no data available
<b>10.5</b>	<b>Incompatible materials</b>	no data available
<b>10.6</b>	<b>Hazardous decomposition products</b>	no data available

**11. TOXICOLOGICAL INFORMATION**

<b>11.1</b>	<b>Information on toxicological effects</b>	no data available
<b>11.1.1</b>	<b>Acute toxicity</b>	no data available
<b>11.1.2</b>	<b>Irritation and corrosion</b>	Causes severe burns.
<b>11.1.3</b>	<b>Sensitisation</b>	No sensitisation responses were observed.
<b>11.1.4</b>	<b>Subacute, subchronic and prolonged toxicity</b>	no data available
<b>11.1.5</b>	<b>STOT-single exposure</b>	no data available
<b>11.1.6</b>	<b>STOT-repeated exposure</b>	no data available
<b>11.1.7</b>	<b>Aspiration hazard</b>	no data available
<b>11.1.8</b>	<b>Other information on acute toxicity</b>	-

**12. ECOLOGICAL INFORMATION**

<b>12.1</b>	<b>Toxicity</b>	
<b>12.1.1</b>	<b>Aquatic toxicity</b>	slightly water endangering

**Phosphate R1, Phosphate R1L**

Date 2.5.2011

Previous date: -

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

**13. DISPOSAL CONSIDERATIONS**

The product has to be disposed of as laboratory chemical in accordance with local regulations.

- 13.1 Waste treatment methods**  
no data available
- 13.2 Waste from residues / unused products**  
no data available

**14. TRANSPORT INFORMATION**

- 14.1 UN number** UN 2796
- 14.2 UN proper shipping name** Sulphuric acid 16.5 %
- 14.3 Transport hazard class(es)** 8
- 14.4 Packing group** II
- 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**  
-

**15. REGULATORY INFORMATION**

The product is classified and labelled in accordance with Directive 1999/45/EC.

- 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

**Phosphate R1, Phosphate R1L**

Date 2.5.2011

Previous date: -

---

**16.4 Classification procedure**

The mixture is classified as dangerous in accordance with Directive 1999/45/EC.

**16.6 Training advice**

-

**16.7 Recommended restrictions**

-

**16.8 Additional information available from:**

Code of the Safety Data Sheet: D10170-01-01-SDS-Phosphate R1, R1L-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.

2.5.2011

UM