

**TOC Phosphoric Acid 10 w/v-%**

Date 7.3.2014

Previous date: -

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

TOC Phosphoric Acid 10 w/v-%

**1.1.2 Product code**

FF6365 10 L

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

MP0112 - Laboratory use: R&amp;D laboratory use

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

Oy FF-Chemicals Ab

**Street address**

Teollisuustie 4

**Postcode and post office**

FI-90830 Haukipudas

Finland

**Telephone**

+358 8 5563 193

**Telefax**

+358 8 5563 194

**Email**

ffc@ff-chemicals.fi

**1.4 Emergency telephone number****1.4.1 Telephone number, name and address**

Emergency telephone number 112

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****1272/2008 (CLP)**

Skin Irrit. 2, H315

Eye Irrit. 2, H319

**67/548/EEC - 1999/45/EC**

Xi; R36/38

**2.2 Label elements****1272/2008 (CLP)**

GHS07

Signal word

**Warning****Hazard Statements**

H315

Causes skin irritation.

H319

Causes serious eye irritation.

**Precautionary Statements**

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352

IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313

If eye irritation persists: Get medical advice/attention.

**2.3 Other hazards****3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components**

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CAS/EC and Reg. number	Chemical name of the substance	Concentration Classification
7664-38-2	phosphoricacid...%,orthophosphoi10% icacid...%	C; R34; Skin Corr. 1B, H314

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

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off all contaminated clothing immediately.

**4.1.2 Inhalation**

If breathed in, move person into fresh air. Get medical attention immediately if symptoms occur.

**4.1.3 Skin contact**

Wash off with warm water and soap. Remove contaminated clothing. If irritation develops, get medical attention.

**4.1.4 Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

**4.1.5 Ingestion**

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth. Do NOT induce vomiting.

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

Acute dermal irritation/corrosion. Acute eye irritation/corrosion. Headache, nausea. Cough. Breathing difficulties.

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

If eye irritation persists, consult a specialist. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

**5. FIREFIGHTING MEASURES**

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**5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**5.1.2 Extinguishing media which must not be used for safety reasons**

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**5.2 Special hazards arising from the substance or mixture**

Burning produces irritant fumes.

**5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.

**5.4 Specific methods**

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**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Ventilate the area. Use personal protective equipment.

**6.2 Environmental precautions**

Try to prevent the material from entering drains or water courses.

**6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste.

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**6.4 Reference to other sections**  
4, 8, 13.**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Prevent vapour buildup by providing adequate ventilation during and after use. For personal protection see section 8.

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

Store at room temperature. Keep container tightly closed. Keep container in a well-ventilated place.

**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	phosphoricacid...%, orthophosphoricacid...%	1 mg/m <sup>3</sup> (8 h)	2 mg/m <sup>3</sup> (15 min)
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**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**

Ensure adequate ventilation, especially in confined areas. Remove and wash contaminated clothing before re-use. Ensure that eyewash stations and safety showers are close to the workstation location.

**8.2.2 Individual protection measures****8.2.2.1 Respiratory protection**

Respiratory protection complying with EN 143.

**8.2.2.2 Hand protection**

Protective gloves complying with EN 374.

**8.2.2.3 Eye/face protection**

Safety glasses with side-shields conforming to EN166

**8.2.2.4 Skin protection**

Lab coat

**8.2.3 Environmental exposure controls**

Prevent product from entering drains.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Important Health Safety and Environmental Information****9.1.1 Appearance**

Liquid, clear, colourless.

**9.1.2 Odour**

odourless

**9.1.3 Odour threshold**

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**9.1.5 Melting point/freezing point**

no data available

**9.1.6 Initial boiling point and boiling range**

no data available

**9.1.7 Flash point**

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**9.1.8 Evaporation rate**

no data available

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<b>9.1.9</b>	<b>Flammability (solid, gas)</b>	-
<b>9.1.10</b>	<b>Explosive properties</b>	-
<b>9.1.10.1</b>	<b>Lower explosion limit</b>	-
<b>9.1.10.2</b>	<b>Upper explosion limit</b>	-
<b>9.1.11</b>	<b>Vapour pressure</b>	no data available
<b>9.1.12</b>	<b>Vapour density</b>	no data available
<b>9.1.13</b>	<b>Relative density</b>	1,0495 kg/l
<b>9.1.14</b>	<b>Solubility(ies)</b>	
<b>9.1.14.1</b>	<b>Water solubility</b>	soluble
<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>	-
<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>	-
<b>9.1.20</b>	<b>Oxidising properties</b>	-
<b>9.2</b>	<b>Other information</b>	

**10. STABILITY AND REACTIVITY**

<b>10.1</b>	<b>Reactivity</b>	-
<b>10.2</b>	<b>Chemical stability</b>	The product is chemically stable.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	-
<b>10.4</b>	<b>Conditions to avoid</b>	Decomposes on heating.
<b>10.5</b>	<b>Incompatible materials</b>	Strong bases. Powdered metals.
<b>10.6</b>	<b>Hazardous decomposition products</b>	No information available.

**11. TOXICOLOGICAL INFORMATION**

<b>11.1</b>	<b>Information on toxicological effects</b>	-
<b>11.1.1</b>	<b>Acute toxicity</b>	-
<b>11.1.2</b>	<b>Irritation and corrosion</b>	Irritating to eyes and skin.
<b>11.1.3</b>	<b>Sensitisation</b>	-
<b>11.1.4</b>	<b>Subacute, subchronic and prolonged toxicity</b>	-
<b>11.1.5</b>	<b>STOT-single exposure</b>	-
<b>11.1.6</b>	<b>STOT-repeated exposure</b>	-
<b>11.1.7</b>	<b>Aspiration hazard</b>	-

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**11.1.8 Other information on acute toxicity**

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**12. ECOLOGICAL INFORMATION****12.1 Toxicity****12.1.1 Aquatic toxicity**

No information available.

**12.1.2 Toxicity to other organisms**

No information available.

**12.2 Persistence and degradability****12.2.1 Biodegradation**

No information available.

**12.2.2 Chemical degradation**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

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**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**

160506 - laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals

**14. TRANSPORT INFORMATION**

	<b>Land transport ADR/RID</b>	<b>Sea transport IMDG/IMO</b>	<b>Air transport ICAO/IATA</b>
<b>14.1 UN number</b>	1805	1805	
<b>14.2 UN proper shipping name</b>	PHOSPHORIC ACID SOLUTION	PHOSPHORIC ACID SOLUTION	
<b>14.3 Transport hazard class(es)</b>	8	8	
<b>14.4 Packing group</b>	III	III	
<b>14.5 Environmental hazards</b>			
<b>Other information</b>			

**14.6 Special precautions for users**

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**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code****15. REGULATORY INFORMATION**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
REGULATION (EC) No 1272/2008
- 15.2 Chemical safety assessment**  
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**16. OTHER INFORMATION**

- 16.1 Additions, Deletions, Revisions**  
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- 16.2 Key or legend to abbreviations and acronyms**  
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- 16.3 Key literature references and sources for data**  
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, Annex VI, Table 3.1
- 16.4 Classification procedure**  
This product is a mixture. Health hazard information is based on its components.
- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**  
R36/38 Irritating to eyes and skin.
- 16.6 Training advice**  
Provide adequate information, instruction and training for operators.
- 16.7 Recommended restrictions**  
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- 16.8 Additional information available from:**  
Oy FF-Chemicals Ab, puh. 08 5563 193  
ffc@ff-chemicals.fi

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.