SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Revision Date 16.05.2017 Version 1.1

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Catalogue No. 543828
Product name ortho-Phosphoric acid 85% for HPLC LiChropur®

REACH Registration Number This product is a mixture. REACH Registration Number see section 3.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Reagent for analysis
In compliance with the conditions described in the annex to this safety data sheet.

1.3 Details of the supplier of the safety data sheet

Company Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Responsible Department LS-QHC * e-mail: prodsafe@merckgroup.com

1.4 Emergency telephone number Please contact the regional company representation in your country.

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
Corrosive to metals, Category 1, H290
Skin corrosion, Category 1B, H314
For the full text of the H-Statements mentioned in this Section, see Section 16.
2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

_Hazard pictograms_

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Danger</th>
</tr>
</thead>
</table>

_Hazard statements_

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

_Precautionary statements_

**Prevention**
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response**
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

_Reduced labelling (≤125 ml)_

_Hazard pictograms_

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Danger</th>
</tr>
</thead>
</table>

_Hazard statements_

H314 Causes severe skin burns and eye damage.

_Precautionary statements_
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

2.3 Other hazards
None known.

SECTION 3. Composition/information on ingredients

Chemical nature Aqueous solution

3.1 Substance
Not applicable

3.2 Mixture

Hazardous components (REGULATION (EC) No 1272/2008)

<table>
<thead>
<tr>
<th>Chemical name (Concentration)</th>
<th>CAS-No.</th>
<th>Registration number</th>
<th>Classification</th>
</tr>
</thead>
</table>
| phosphoric acid (>= 50 % - <= 100 %) | 7664-38-2 | 01-2119485924-24-XXXX | Corrosive to metals, Category 1, H290
| PBT/vPvB: Not applicable for inorganic substances | | | Skin corrosion, Category 1B, H314 |

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice
First aider needs to protect himself.

After inhalation: fresh air. Call in physician.
After skin contact: wash off with plenty of water. Remove contaminated clothing. Call a physician immediately.

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed
Irritation and corrosion, Cough, Shortness of breath, Pain, Spasm, shock, conjunctivitis
Risk of blindness!

4.3 Indication of any immediate medical attention and special treatment needed
No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Not combustible.
Ambient fire may liberate hazardous vapours.
Fire may cause evolution of:
Oxides of phosphorus

5.3 Advice for firefighters
Special protective equipment for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Further information
Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralising material (e.g. Chemizorb® H⁺, Merck Art. No. 101595). Dispose of properly. Clean up affected area.

6.4 Reference to other sections
Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Observe label precautions.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers
No metal or light-weight-metal containers.
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Catalogue No. 543828
Product name ortho-Phosphoric acid 85% for HPLC LiChropur®

Storage conditions
Tightly closed.
Recommended storage temperature see product label.

7.3 Specific end use(s)
See exposure scenario in the Annex to this MSDS.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL)

phosphoric acid (7664-38-2)
Worker DNEL, acute Local effects inhalation 2 mg/m³
Worker DNEL, longterm Local effects inhalation 1 mg/m³
Consumer DNEL, longterm Local effects inhalation 0.73 mg/m³

Predicted No Effect Concentration (PNEC)

phosphoric acid (7664-38-2)
PNEC no data available

8.2 Exposure controls

Engineering measures
Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures
Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.
Eye/face protection
Tightly fitting safety goggles

Hand protection
full contact:
- Glove material: Nitrile rubber
- Glove thickness: 0,11 mm
- Break through time: > 480 min

splash contact:
- Glove material: Nitrile rubber
- Glove thickness: 0,11 mm
- Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment
Acid-resistant protective clothing

Respiratory protection
required when vapours/aerosols are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls
Do not let product enter drains.
SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>&lt; 0,5</td>
</tr>
<tr>
<td></td>
<td>at 100 g/l</td>
</tr>
<tr>
<td></td>
<td>20 °C</td>
</tr>
<tr>
<td>Melting point</td>
<td>ca. 21 °C</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>ca. 158 °C</td>
</tr>
<tr>
<td></td>
<td>at 1.013 hPa</td>
</tr>
<tr>
<td>Flash point</td>
<td>does not flash</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>2 hPa</td>
</tr>
<tr>
<td></td>
<td>at 20 °C</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>No information available.</td>
</tr>
</tbody>
</table>
Density 1,71 g/cm³ at 20 °C

Relative density No information available.

Water solubility at 20 °C soluble

Partition coefficient: n-octanol/water No information available.

Auto-ignition temperature No information available.

Decomposition temperature No information available.

Viscosity, dynamic No information available.

Explosive properties Not classified as explosive.

Oxidizing properties Oxidizing potential

9.2 Other data

Ignition temperature not combustible

Viscosity, kinematic 30,5 mm²/s at 20 °C

Corrosion May be corrosive to metals.

SECTION 10. Stability and reactivity

10.1 Reactivity
See section 10.3

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature).
10.3 Possibility of hazardous reactions
Risk of ignition or formation of inflammable gases or vapours with:

Metals, metal alloys
Possible formation of:
Hydrogen
Violent reactions possible with:
bases, metallic oxides

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
Aluminium, iron/iron-containing compounds, Mild steel
Gives off hydrogen by reaction with metals.

10.6 Hazardous decomposition products
in the event of fire: See section 5.

SECTION 11. Toxicological information

11.1 Information on toxicological effects
Mixture

Acute oral toxicity
Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation
of the oesophagus and the stomach., Pain

Acute inhalation toxicity
Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:,; damage of
respiratory tract

Acute dermal toxicity
This information is not available.
Skin irritation
Mixture causes burns.

Eye irritation
conjunctivitis Mixture causes serious eye damage. Risk of blindness!

Sensitisation
This information is not available.

Germ cell mutagenicity
This information is not available.

Carcinogenicity
This information is not available.

Reproductive toxicity
This information is not available.

Teratogenicity
This information is not available.

Specific target organ toxicity - single exposure
This information is not available.

Specific target organ toxicity - repeated exposure
This information is not available.

Aspiration hazard
This information is not available.

11.2 Further information
Systemic effects:
Convulsions, shock
Other dangerous properties can not be excluded.
Handle in accordance with good industrial hygiene and safety practice.

Components

phosphoric acid
Acute oral toxicity
LD50 Rat: ca. 2.600 mg/kg
OECD Test Guideline 423

Acute dermal toxicity
LD50 Rabbit: 2.740 mg/kg
(IUCLID)

Skin irritation
Rabbit
Result: Causes burns.
US-EPA

Eye irritation
Rabbit
Result: Causes burns.

(IUCLID)

Sensitisation
Patch test: human
Result: negative

(IUCLID)

Germ cell mutagenicity
Genotoxicity in vitro
Ames test
Escherichia coli/Salmonella typhimurium
Result: negative
Method: OECD Test Guideline 471

In vitro mammalian cell gene mutation test
Result: negative
Method: OECD Test Guideline 473

In vitro mammalian cell gene mutation test
Mouse lymphoma test
Result: negative
Method: OECD Test Guideline 476

SECTION 12. Ecological information

Mixture
12.1 Toxicity
No information available.

12.2 Persistence and degradability
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
Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

12.6 Other adverse effects
Additional ecological information
Harmful effect due to pH shift. Caustic even in diluted form. Depending on the concentration, phosphorus compounds may contribute to the eutrophication of water supplies.
Discharge into the environment must be avoided.

Components
phosphoric acid

Toxicity to fish
LC50 Gambusia affinis (Mosquito fish): 138 mg/l; 96 h
(External MSDS)

Toxicity to daphnia and other aquatic invertebrates
static test EC50 Daphnia magna (Water flea): > 100 mg/l; 48 h
Analytical monitoring: yes
OECD Test Guideline 202

Toxicity to algae
static test ErC50 Desmodesmus subspicatus (green algae): > 100 mg/l; 72 h
Analytical monitoring: yes
OECD Test Guideline 201

Toxicity to bacteria
EC50 activated sludge: 270 mg/l
(IUCLID)
Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Partition coefficient: n-octanol/water
log Pow: -0.77
(calculated)
(Lit.) Bioaccumulation is not expected.

PBT/vPvB: Not applicable for inorganic substances

SECTION 13. Disposal considerations

Waste treatment methods
See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14. Transport information

Land transport (ADR/RID)

14.1 UN number UN 1805
14.2 Proper shipping name PHOSPHORIC ACID, SOLUTION
14.3 Class 8
14.4 Packing group III
14.5 Environmentally hazardous --
14.6 Special precautions for user yes
Tunnel restriction code E

Inland waterway transport (ADN)
Not relevant

Air transport (IATA)
**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

<table>
<thead>
<tr>
<th>Catalogue No.</th>
<th>543828</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td><strong>ortho-Phosphoric acid 85% for HPLC LiChropur®</strong></td>
</tr>
</tbody>
</table>

14.1 **UN number**

UN 1805

14.2 **Proper shipping name**

PHOSPHORIC ACID, SOLUTION

14.3 **Class**

8

14.4 **Packing group**

III

14.5 **Environmentally hazardous**

--

14.6 **Special precautions for user**

no

### Sea transport (IMDG)

<table>
<thead>
<tr>
<th>14.1 <strong>UN number</strong></th>
<th>UN 1805</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 <strong>Proper shipping name</strong></td>
<td>PHOSPHORIC ACID SOLUTION</td>
</tr>
<tr>
<td>14.3 <strong>Class</strong></td>
<td>8</td>
</tr>
<tr>
<td>14.4 <strong>Packing group</strong></td>
<td>III</td>
</tr>
<tr>
<td>14.5 <strong>Environmentally hazardous</strong></td>
<td>--</td>
</tr>
<tr>
<td>14.6 <strong>Special precautions for user</strong></td>
<td>yes</td>
</tr>
<tr>
<td>EmS</td>
<td>F-A S-B</td>
</tr>
</tbody>
</table>

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

Not relevant

---

**SECTION 15. Regulatory information**

15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulations**

**Major Accident Hazard Legislation**

SEVESO III

Not applicable

**Occupational restrictions**

Take note of Dir 94/33/EC on the protection of young people at work.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

not regulated
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Catalogue No. 543828
Product name ortho-Phosphoric acid 85% for HPLC LiChropur®


Substances of very high concern (SVHC) This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of ≥ 0.1 % (w/w).

National legislation
Storage class 8B

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Training advice
Provide adequate information, instruction and training for operators.

Labelling
Hazard pictograms

Signal word
Danger
Hazard statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements
Prevention
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

Key or legend to abbreviations and acronyms used in the safety data sheet
Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation
This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.
EXPOSURE SCENARIO 1 (Industrial use)

1. Industrial use Reagent for analysis)

Sectors of end-use
SU 3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU9 Manufacture of fine chemicals
SU 10 Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)

Chemical product category
PC19 Intermediate
PC21 Laboratory chemicals

Process categories
PROC1 Use in closed process, no likelihood of exposure
PROC2 Use in closed, continuous process with occasional controlled exposure
PROC3 Use in closed batch process (synthesis or formulation)
PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5 Mixing or blending in batch processes for formulation of preparations and articles
(multistage and/ or significant contact)
PROC8a Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large
containers at non-dedicated facilities
PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large
containers at dedicated facilities
PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including
weighing)
PROC10 Roller application or brushing
PROC14 Production of preparations or articles by tabletting, compression, extrusion, pelletisation
PROC15 Use as laboratory reagent

Environmental Release Categories
ERC2 Formulation of preparations
ERC4 Industrial use of processing aids in processes and products, not becoming part of articles
ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)
ERC6b Industrial use of reactive processing aids
2. Contributing scenarios: Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC14, PROC15

Product characteristics

Concentration of the Substance in Mixture/Article
Covers the percentage of the substance in the product up to 100 %.

Physical Form (at time of use)
Solid, low dustiness

Frequency and duration of use

Frequency of use
8 hours/day

Frequency of use
5 days/week

Other operational conditions affecting workers exposure

Indoor without local exhaust ventilation (LEV)

Organisational measures to prevent /limit releases, dispersion and exposure

Covers daily exposures up to 8 hours.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Tightly fitting safety goggles

Additional good practice advice beyond the REACH Chemical Safety Assessment

Wear suitable coveralls to prevent exposure to the skin.

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC14, PROC15

Product characteristics

Concentration of the Substance in Mixture/Article
Covers the percentage of the substance in the product up to 100 %.

Physical Form (at time of use)
Low volatile liquid

Process Temperature
< 84 °C

Frequency and duration of use

The Safety Data Sheets for catalogue items are available at www.merckgroup.com
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Catalogue No. 543828
Product name ortho-Phosphoric acid 85% for HPLC LiChropur®

Frequency of use 8 hours/day
Frequency of use 5 days/week

Other operational conditions affecting workers exposure
Outdoor / Indoor Indoor without local exhaust ventilation (LEV)

Organisational measures to prevent /limit releases, dispersion and exposure
Covers daily exposures up to 8 hours.

Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable gloves tested to EN374. Tightly fitting safety goggles

Additional good practice advice beyond the REACH Chemical Safety Assessment
Wear suitable coveralls to prevent exposure to the skin.

3. Exposure estimation and reference to its source

Environment
A chemical safety assessment was performed according REACH Article 14(3), Annex I, sections 3 (Environmental Hazard Assessment) and 4 (PBT/vPvB Assessment). As no hazard was identified, an exposure assessment and risk characterisation is not necessary (REACH Annex I section 5.0).

Workers

<table>
<thead>
<tr>
<th>CS</th>
<th>Use descriptor</th>
<th>Exposure duration, route, effect</th>
<th>RCR</th>
<th>Exposure Assessment Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>PROC1</td>
<td>longterm, inhalative, local</td>
<td>0,01</td>
<td>MEASE, Solid</td>
</tr>
<tr>
<td>2.1</td>
<td>PROC2</td>
<td>longterm, inhalative, local</td>
<td>0,01</td>
<td>MEASE, Solid</td>
</tr>
<tr>
<td>2.1</td>
<td>PROC3</td>
<td>longterm, inhalative, local</td>
<td>0,1</td>
<td>MEASE, Solid</td>
</tr>
<tr>
<td>2.1</td>
<td>PROC4</td>
<td>longterm, inhalative, local</td>
<td>0,5</td>
<td>MEASE, Solid</td>
</tr>
<tr>
<td>2.1</td>
<td>PROC5</td>
<td>longterm, inhalative, local</td>
<td>0,5</td>
<td>MEASE, Solid</td>
</tr>
<tr>
<td>2.1</td>
<td>PROC8a</td>
<td>longterm, inhalative, local</td>
<td>0,5</td>
<td>MEASE, Solid</td>
</tr>
<tr>
<td>2.1</td>
<td>PROC8b</td>
<td>longterm, inhalative, local</td>
<td>0,1</td>
<td>MEASE, Solid</td>
</tr>
<tr>
<td>2.1</td>
<td>PROC9</td>
<td>longterm, inhalative, local</td>
<td>0,1</td>
<td>MEASE, Solid</td>
</tr>
<tr>
<td>2.1</td>
<td>PROC10</td>
<td>longterm, inhalative, local</td>
<td>0,5</td>
<td>MEASE, Solid</td>
</tr>
<tr>
<td>2.1</td>
<td>PROC14</td>
<td>longterm, inhalative, local</td>
<td>0,1</td>
<td>MEASE, Solid</td>
</tr>
<tr>
<td>2.1</td>
<td>PROC15</td>
<td>longterm, inhalative, local</td>
<td>0,1</td>
<td>MEASE, Solid</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 543828
Product name ortho-Phosphoric acid 85% for HPLC LiChropur®

2.2 PROC1 longterm, inhalative, local 0,01 MEASE, Liquid
2.2 PROC2 longterm, inhalative, local 0,01 MEASE, Liquid
2.2 PROC3 longterm, inhalative, local 0,1 MEASE, Liquid
2.2 PROC4 longterm, inhalative, local 0,5 MEASE, Liquid
2.2 PROC5 longterm, inhalative, local 0,5 MEASE, Liquid
2.2 PROC8a longterm, inhalative, local 0,5 MEASE, Liquid
2.2 PROC8b longterm, inhalative, local 0,1 MEASE, Liquid
2.2 PROC9 longterm, inhalative, local 0,1 MEASE, Liquid
2.2 PROC10 longterm, inhalative, local 0,5 MEASE, Liquid
2.2 PROC14 longterm, inhalative, local 0,1 MEASE, Liquid
2.2 PROC15 longterm, inhalative, local 0,1 MEASE, Liquid

The default parameters and -efficiencies of the applied exposure assessment model were used for the calculation (unless stated differently).

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).