

Version 1.2 Revision Date 06-10-2014 Print Date 07-08-2014

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : PHOS Mat.-No./ Genisys-No. : 11875981216

Manufacturer or supplier's details

Company : Roche Diagnostics

-

Address : 9115 Hague Road 46250 Indianapolis IN

Telephone : 1-800-428-5074

Emergency telephone number:

In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or

Canada)

1-703-527-3887 (International)

Recommended use of the chemical and restrictions on use

Restrictions on use : For professional users only.

#### **SECTION 2. HAZARDS IDENTIFICATION**

Physical state	liquid

#### **GHS Classification**

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labelling for the kit.

#### **GHS Label element**

Hazard pictograms :





Signal word : Danger

Hazard statements : H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H350 May cause cancer.

Precautionary statements : **Prevention:** 

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P234 Keep only in original container. P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection. **Response:** 

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off



Version 1.2 Revision Date 06-10-2014 Print Date 07-08-2014

immediately all contaminated clothing. Rinse skin with water/

shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep

at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage.

Storage:

P405 Store locked up.

P406 Store in corrosive resistant stainless steel container with a

resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

**Potential Health Effects** 

Aggravated Medical

Condition

: None known.

Symptoms of Overexposure : No information available.

Carcinogenicity:

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### R1

**GHS Classification** 

Corrosive to metals : Category 1

Skin corrosion : Category 1A

Serious eye damage : Category 1

Carcinogenicity : Category 1A

## **Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
sulphuric acid	7664-93-9	>= 1 - < 5

## **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

If unconscious place in recovery position and seek medical

advice.



Version 1.2 Revision Date 06-10-2014 Print Date 07-08-2014

If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear. Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Rinse mouth with water.

Most important symptoms and effects, both acute and

delayed

: No information available.

Notes to physician : The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

# **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**



Version 1.2 Revision Date 06-10-2014 Print Date 07-08-2014

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not breathe vapours/dust.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

To prevent leaks or spillages from spreading, provide a

suitable liquid retention system.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Jiace.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### R1

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sulphuric acid	7664-93-9	TWA (Thoracic fraction)	0.2 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0

# Personal protective equipment

Hand protection

Material : Protective gloves

Remarks : The selected protective gloves have to satisfy the



Version 1.2 Revision Date 06-10-2014 Print Date 07-08-2014

specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

R1

Appearance : liquid

pH : < 2

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : No data available

Lower explosion limit : No data available

Density : 1.0222 g/cm3

Solubility(ies)

Water solubility : completely miscible

Auto-ignition temperature : No data available

Thermal decomposition : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

# **SECTION 10. STABILITY AND REACTIVITY**



Version 1.2 Revision Date 06-10-2014 Print Date 07-08-2014

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition

products

: No data available

### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### R1

## **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Components:

sulphuric acid:

Acute oral toxicity : LD50 Oral (rat): 2,140 mg/kg

Acute inhalation toxicity : LC50 (rat): 0.51 mg/l

Exposure time: 2 h

LC50 (mouse): 0.32 mg/l Exposure time: 2 h

#### Skin corrosion/irritation

Causes severe burns.

**Product:** 

Remarks: Extremely corrosive and destructive to tissue.

## **Components:**

#### sulphuric acid:

Remarks: Extremely corrosive and destructive to tissue.

# Serious eye damage/eye irritation

Causes serious eye damage.

# Product:

Remarks: May cause irreversible eye damage.

## **Components:**

sulphuric acid:



Version 1.2 Revision Date 06-10-2014 Print Date 07-08-2014

Remarks: May cause irreversible eye damage.

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

## Germ cell mutagenicity

Not classified based on available information.

# **Components:**

## sulphuric acid:

Genotoxicity in vitro : Test Type: Ames test

Result: negative

Remarks: In vitro tests did not show mutagenic effects

## Carcinogenicity

May cause cancer.

# Reproductive toxicity

Not classified based on available information.

## STOT - single exposure

Not classified based on available information.

#### Components:

## sulphuric acid:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

## STOT - repeated exposure

Not classified based on available information.

#### **Components:**

## sulphuric acid:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Aspiration toxicity**

Not classified based on available information.

## Components:

# sulphuric acid:

No aspiration toxicity classification

## **SECTION 12. ECOLOGICAL INFORMATION**

## R1

## **Ecotoxicity**

## **Product:**

**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.



Version 1.2 Revision Date 06-10-2014 Print Date 07-08-2014

Other organisms relevant to

the environment

: No data available

**Components:** 

sulphuric acid:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 25 mg/l

Exposure time: 24 h

LC50 (Gambusia affinis (Mosquito fish)): 42 mg/l

Exposure time: 96 h

LC0 (Fish): 6.3 mg/l Exposure time: 24 h

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 29 mg/l

Exposure time: 24 h

Ecotoxicology Assessment

Toxicity Data on Soil

Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

**Product:** 

Remarks

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Can be disposed as waste water, when in compliance with

local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal.



Revision Date 06-10-2014 Version 1.2 Print Date 07-08-2014

Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

# International regulation

IATA-DGR

: UN 2796 UN/ID No. Proper shipping name : Sulphuric acid

: 8 Class Packing group : 11

Labels : Corrosives

Packing instruction (cargo

aircraft)

: 855

Packing instruction : Not permitted for transport

(passenger aircraft)

**IMDG-Code** 

**UN** number : UN 2796 Proper shipping name : Sulphuric acid

Class : 8 Packing group : 11 Labels : 8 EmS Code : F-A, S-B

Marine pollutant : no

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

Not applicable for product as supplied.

# **National Regulations**

**49 CFR** 

UN/ID/NA number : UN 2796 Proper shipping name : Sulfuric acid

: 8 Class Packing group : II

: Class 8 - Corrosive Labels

**ERG** Code : 157 Marine pollutant : no

### **SECTION 15. REGULATORY INFORMATION**

R1

**OSHA Hazards** : Carcinogen, Highly toxic by inhalation

## **EPCRA - Emergency Planning and Community Right-to-Know Act**

## **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Sulfuric acid	7664-93-9	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.



Version 1.2 Revision Date 06-10-2014 Print Date 07-08-2014

# SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulfuric acid	7664-93-9	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

**SARA 302** : The following components are subject to reporting levels

established by SARA Title III, Section 302:

sulphuric acid 7664-93-9 3.4241 %

**SARA 313** : SARA 313: This material does not contain any chemical

> components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA

Title III, Section 313.

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

> 7664-93-9 3.4241 % sulphuric acid

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

> sulphuric acid 7664-93-9 3.4241 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### **OSHA Process Safety Management Lists**

This product does not contain any hazdous materials listed under OSHAs process safety management of highly hazardous chemicals.

### Massachusetts Right To Know

sulphuric acid	7664-93-9	1 - 5 %
Pennsylvania Right To Know		
water	7732-18-5	90 - 100 %
sulphuric acid	7664-93-9	1 - 5 %

## **New Jersey Right To Know**

water	7732-18-5	90 - 100 %
sulphuric acid	7664-93-9	1 - 5 %

California Prop 65 : This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

reproductive harm.

#### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

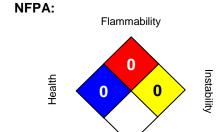


Version 1.2 Revision Date 06-10-2014 Print Date 07-08-2014

# **SECTION 16. OTHER INFORMATION**

#### **Further information**

# R1



Special hazard.

## HMIS III:

HEALTH	0*
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.