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# Material Safety Data Sheet According to 91/155 EEC

Reviewed on 24.02.2005

### 1 Identification of substance:

· Product details: Reagent for water analysis

· Product name: Total Phosphate (Vario Phosphate RGT F10)

· Catalog number: 251 988 Model: PO4-3 TC

· Supplier:

WTW Wissenschaftlich-Technische Werkstätten GmbH

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#### · Emergency information:

Poison Center Berlin, Germany

Tel.: +49(0)30 19240

#### 2 Composition/Data on components:

· **Description:** Mixture of the substances listed below with harmless additions.

Dangerous components.			
CAS: 5329-14-6	sulphamidic acid	Xi; R 36/38-52/53	20-25%
EINECS: 226-218-8			
EC Number: 016-026-00-0			

• Additional information For the wording of the listed risk phrases refer to section 16.

## \* 3 Hazards identification

· Hazard designation:



Xi Irritant

#### · Information pertaining to particular dangers for man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 36/38 Irritating to eyes and skin.

· Classification system

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

### 4 First aid measures

- · General information No special measures required.
- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- · After skin contact Instantly wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for several minutes under running water.

Seek medical treatment.

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· After swallowing

Rinse out mouth and then drink plenty of water.

Seek immediate medical advice.

· The following symptoms may occur:

after inhalation:

irritation

coughing

breathing difficulty

after swallowing:

gastric or intestinal trouble

sickness

vomiting

mucous membrane irritation

### 5 Fire fighting measures

· Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Use fire fighting measures that suit the environment.

· Special hazards caused by the material, its products of combustion or resulting gases:

Formation of toxic gases is possible during heating or in case of fire.

Nitrogen oxides (NOx)

Sulphur oxides (SOx)

ammonia

- · Protective equipment: Wear self-contained breathing apparatus.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter drains.

## 6 Accidental release measures

· Person-related safety precautions:

Avoid causing dust.

Wear protective equipment. Keep unprotected persons away.

- · Measures for environmental protection: Do not allow product to reach sewage system or water bodies.
- · Measures for cleaning/collecting:

Dilute with much water.

Use neutralizing agent.

(NaOH)

Dispose of the material collected according to regulations.

Collect mechanically.

## 7 Handling and storage

- · Handling
- · Information for safe handling: No special measures required.
- · Information about protection against explosions and fires: The product is not flammable
- · Storage
- · Requirements to be met by storerooms and containers: Store in cool location.
- · Information about storage in one common storage facility:

Store away from water.

Store away from metals.

· Further information about storage conditions:

Keep container tightly sealed.

Store under dry conditions.

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Protect from humidity and keep away from water.

Protect from the effects of light.

· Storage class Not required.

## 8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the compilation were used as basis.
- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

- · Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.
- · Recommended filter device for short term use: Filter P2
- · Protection of hands:

Only use chemical-protective gloves with CE-labelling of category III.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Preventive skin protection by use of skin-protecting agents is recommended.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

nitrile rubber, NBR

Nitrile

Recommended thickness of the material:  $\geq 0.11$  mm

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Value for the permeation: Level  $\geq 6$  (480 min)

- · Eye protection: Tightly sealed safety glasses.
- · **Body protection:** Protective work clothing.

٠	0 Physica	and c	hamica	I properties:

· Form: · Colour: · Odour:	Powder White Odourless
· Melting point/Melting range: · Boiling point/Boiling range:	Not determined 1689°C
· Flash point:	Not applicable
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive.
· Density at 20°C	2.373 g/cm³
· Solubility in / Miscibility with Water:	Soluble
· pH-value (30 g/l) at 20°C:	1.2

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· Solvent content:
Organic solvents:

· Solids content:

100.0 %

### \*10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat.
- · Materials to be avoided:

oxidizing agents

alkalis

acids

metals

halogen compounds

nitrates

· Dangerous reactions

Corrosive action on metals

(Reacts with water)

Forms hydrogen in aqueous solution with metals

The solution in water is a strong acid.

· Dangerous products of decomposition: see chapter 5

### \* 11 Toxicological information

· Acute toxicity: Quantitative data on the toxicity of the preparation are not available.

· LD/LC:	· LD/LC50 values that are relevant for classification:		
5329-14	5329-14-6 sulphamidic acid		
Oral	Oral LD50 3160 mg/kg (rat)		
50-81-7	50-81-7 ascorbic acid		
Oral LD50 11900 mg/kg (rat)			
10102-40-6 sodium molybdate			
Oral	LD50	4233 mg/kg (rat)	
Dermal	LD50	> 2000 mg/kg (rat)	

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritant effect.
- · Sensitization: No sensitizing effect known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

The aerosol is corrosive to the eyes, the skin and the respiratory tract. Inhalation of sulfamic acid aerosols may cause lung oedema.

#### 12 Ecological information:

- · Information about elimination (persistence and degradability):
- · Other information: Quantitative data on the ecological effect of this product are not available.
- · Behaviour in environmental systems:

5329-14-6 sulphamidic acid

log P(o/w) -4.34 (.)

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### 50-81-7 ascorbic acid

log P(o/w) -2.15 (.)

#### · Ecotoxical effects:

· Acquatic toxicity:

### 5329-14-6 sulphamidic acid

LC50 70.3 mg/l/96h (Pimephales promelas)

#### 50-81-7 ascorbic acid

LC50 33000 (Merck) mg/l/48h (Leuciscus idus)

1020 mg/l/96h (Onchorhynchus mykiss)

#### 10102-40-6 sodium molybdate

EC50 330 mg/l/48h (Daphnia magna)

LC50 7600 mg/l/96h (Onchorhynchus mykiss)

#### · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

### \*13 Disposal considerations

- · Product:
- · Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · European waste catalogue

16 05 06 laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

- · Uncleaned packagings:
- · **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleaning agent: Water, if necessary with cleaning agent.

#### <sup>\*</sup>14 Transport information

· ADR/GGVSE:	UN 3316 CHEMIE-TESTSATZ, 9, II	
· IMDG/GGVSee: · EMS-Number:	UN 3316 CHEMICAL KIT, 9, II F-A S-P	
· ICAO/IATA:	CHEMICAL KIT, 9, UN 3316, II	

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## 15 Regulatory information

· Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· Code letter and hazard designation of product:

Xi Irritant

· Risk phrases:

36/38 Irritating to eyes and skin.

· Safety phrases:

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

37 Wear suitable gloves.

60 This material and its container must be disposed of as hazardous waste.

# \*16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant R-phrases

36/38 Irritating to eyes and skin.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- · Department issuing data specification sheet: Department TSS, Dr. Manfred Kaul
- · Data compared to the previous version altered.

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