

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

21060-69 PhosVer3 Phosphate Reagent

Print date: 26.10.2009

Product code: 2106069

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1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

21060-69 PhosVer3 Phosphate Reagent

Use of the substance/preparation

Water analysis

Company/undertaking identification

Company name: HACH LANGE GmbH
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Place: D-40549 Düsseldorf
Telephone: +49 (0)211 5288-383
e-mail: SDS@hach-lange.de
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Pacific Way
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Unit 1, Chestnut Road Western Industrial Estate
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2. Hazards identification

Classification

Indications of danger : Irritant
R-phrases :
Risk of serious damage to eyes.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
232-216-8	7790-62-7	Potassium disulfate	75-85 %	Xi R41
200-066-2	50-81-7	Ascorbic acid	15-25 %	
231-551-7	10102-40-6	Sodium molybdate	1-10 %	

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

General information

Take off contaminated clothing and shoes immediately.
Show this safety data sheet to the doctor in attendance.

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After inhalation

Move to fresh air. Consult a physician after significant exposure.

After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After ingestion

Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician immediately. Show this safety data sheet to the doctor in attendance.

Advice to doctor

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

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

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

The following may develop in event of fire: sulfur oxides., Carbon monoxide, carbon dioxide (CO₂), sodium oxides

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

Personal precautions

Use personal protective equipment.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up/taking up

Soak up with inert absorbent material.

7. Handling and storage

Handling

Advice on safe handling

Use only in well-ventilated areas. Do not breathe vapours/dust. Avoid contact with skin and eyes.

Storage

Requirements for storage rooms and vessels

Keep at temperatures between 10 and 25°C.

8. Exposure controls/personal protection

Exposure limit values

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Exposure controls

Occupational exposure controls

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Protective and hygiene measures

Wash hands before breaks and at the end of workday.

Respiratory protection

Provide adequate ventilation.

Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

Eye protection

Safety glasses with side-shields

Skin protection

Avoid contact with skin, eyes and clothing.

9. Physical and chemical properties

General information

Physical state: solid
Colour: white
Odour: odourless

Important health, safety and environmental information

	Test method
pH-Value (at 20 °C):	1,5 (5 % solution)
Changes in the physical state	
Melting point:	105 °C
Flash point:	not applicable
Flammability	
Solid:	not applicable
Gas:	not applicable
Explosive properties	
not applicable	
	2,22 g/cm ³
Water solubility: (at 20 °C)	soluble
Solubility in other solvents:	acids

10. Stability and reactivity

Conditions to avoid

Extremes of temperature and direct sunlight.

Materials to avoid

oxidizing agents
bases

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Hazardous decomposition products

carbon dioxide (CO₂), Carbon monoxide, Sulphur oxides

Additional information

Stable under recommended storage conditions.

11. Toxicological information

Acute toxicity

No data is available on the product itself.

Specific effects in experiment on an animal

No data is available on the product itself.

Potassium disulfate LD50/oral/rat = 2340 mg/kg

Sodium molybdate LD50/oral/rat = 4000 mg/kg

Ascorbic acid LD50/oral/rat = 11900 mg/kg

12. Ecological information

Ecotoxicity

No data is available on the product itself.

13. Disposal considerations

Advice on disposal

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

14. Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not subject to transport regulations.

Inland waterways transport

Other applicable information (inland waterways transport)

Not tested

Marine transport

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Other applicable information (marine transport)

Not subject to transport regulations.

Air transport

Other applicable information (air transport)

Not subject to transport regulations.

15. Regulatory information

Labelling

Danger symbols: Xi - Irritant



Xi - Irritant

Hazardous component(s) to be indicated on label

Potassium disulfate

R phrases

41 Risk of serious damage to eyes.

S phrases

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

37/39 Wear suitable gloves and eye/face protection.

Additional advice on labelling

Classification according to European directive on classification of hazardous preparations 1999/45/EC.

National regulatory information

Water contaminating class (D): 2 - water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

41 Risk of serious damage to eyes.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)