

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**14065-99 NitriVer 3 Nitrite Reagent**

Revision date: 22.05.2018

Product code: 1406599

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

14065-99 NitriVer 3 Nitrite Reagent

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Water analysis

**1.3. Details of the supplier of the safety data sheet**

Company name: HACH LANGE GmbH  
Street: Willstätterstr. 11  
Place: D-40549 Düsseldorf  
Telephone: +49 (0)211 5288-383  
e-mail: SDS@hach.com  
Internet: www.de.hach.com  
Responsible Department: HACH LANGE Ltd.  
5, Pacific Way  
Salford Manchester M50 1DL - United Kingdom  
Tel. +44 (0) 161 872 1487 \* Fax +44 (0) 161 848 7324  
e-Mail: info-uk@hach.com

HACH LANGE Ltd.  
Unit 1, Chestnut Road Western Industrial Estate  
IRL-Dublin 12  
Tel. +353 (0)1 4602522  
e-Mail: info-ie@hach.com

**1.4. Emergency telephone number:**

Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service -

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Acute toxicity: Acute Tox. 4

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

Harmful if swallowed.

Causes serious eye damage.

May cause an allergic skin reaction.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Potassium disulfate

Sodium Sulfanilate

Potassium dihydrogen phosphate

**Signal word:** Danger**Pictograms:**

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### Hazard statements

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.

### Precautionary statements

P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.

### Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

### 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
7778-77-0	Potassium dihydrogen phosphate	<80 %
	231-913-4	
	Acute Tox. 4, Eye Irrit. 2; H302 H319	
7790-62-7	Potassium disulfate	<9 %
	232-216-8	
	Skin Corr. 1A, Eye Dam. 1; H314 H318	
515-74-2	Sodium Sulfanilate	<9 %
	208-208-5	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317	
129-96-4	Chromotropic acid disodium salt	<2 %
	204-972-9	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335	
36679-96-6	CDTA Trisodium Salt	<2 %
	Skin Irrit. 2, Eye Irrit. 2; H315 H319	

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

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

#### After inhalation

Move to fresh air. Consult a physician.

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#### 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

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

irritant effects, Cough, Nausea, Vomiting, Diarrhoea

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### 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

None known.

#### 5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours. In the event of fire the following can be released: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Oxides of phosphorus

#### 5.3. Advice for firefighters

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.

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.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Only qualified personnel equipped with suitable protective equipment may intervene. Immediately evacuate personnel to safe areas.

Do not breathe vapours, mist or gas.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

#### 6.3. Methods and material for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

Soak up with inert absorbent material.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

#### 6.4. Reference to other sections

13. Disposal considerations

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Use only in well-ventilated areas.

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Avoid contact with skin and eyes.  
Do not breathe vapours/dust.  
Wash thoroughly after handling.

#### Advice on protection against fire and explosion

None known.  
See also section 5

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep in a dry, cool and well-ventilated place.  
Storage temperature: 10° - 25° C.  
Protect against light.  
Keep locked up or in an area accessible only to qualified or authorised persons.

#### 7.3. Specific end use(s)

Laboratory chemicals

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Additional advice on limit values

None known.

#### 8.2. Exposure controls

##### Appropriate engineering controls

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

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 after work.  
General industrial hygiene practice.  
Ensure that eye flushing systems and safety showers are located close to the working place.

##### Eye/face protection

Safety glasses with side-shields

##### 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

##### Skin protection

Avoid contact with skin, eyes and clothing.  
Avoid contact with skin and eyes.  
Avoid contact with eyes.  
Wash thoroughly after handling.

##### Respiratory protection

Ensure adequate ventilation, especially in confined areas.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state:	powder
Colour:	white
Odour:	none

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pH-Value (at 20 °C): 3,2 (5 % solution)

#### Changes in the physical state

Melting point: 224 °C

Initial boiling point and boiling range: not applicable

Sublimation point: no data available

Softening point: not applicable

Pour point: no data available

: no data available

Flash point: not applicable

#### Flammability

Solid: no data available

Gas: no data available

#### Explosive properties

no data available

Lower explosion limits: no data available

Upper explosion limits: no data available

Ignition temperature: no data available

#### Auto-ignition temperature

Solid: no data available

Gas: no data available

Decomposition temperature: no data available

#### Oxidizing properties

no data available

Vapour pressure: no data available

Vapour pressure: no data available

Density (at 20 °C): 3,12 g/cm<sup>3</sup>

Bulk density: no data available

Water solubility:  
(at 20 °C) soluble

#### Solubility in other solvents

no data available

Partition coefficient: not applicable

Viscosity / dynamic: not applicable

Viscosity / kinematic: not applicable

Flow time: not applicable

Vapour density: no data available

Evaporation rate: no data available

Solvent separation test: no data available

Solvent content: no data available

#### 9.2. Other information

Solid content: no data available

### SECTION 10: Stability and reactivity

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**10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2. Chemical stability**

The product is chemically stable.

**10.3. Possibility of hazardous reactions**

Hazardous polymerisation does not occur.

**10.4. Conditions to avoid**

Extremes of temperature and direct sunlight.

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

Decomposition products: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Oxides of phosphorus

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicokinetics, metabolism and distribution**

No toxicology information is available.

**Acute toxicity**

Harmful if swallowed.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7778-77-0	Potassium dihydrogen phosphate				
	oral	LD50 mg/kg	1700	mouse	
	dermal	LD50 mg/kg	4640	rabbit	

**Irritation and corrosivity**

May cause eye and skin irritation.

**Sensitising effects**

May cause sensitisation by skin contact.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Contains no ingredient listed as a carcinogen

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

No aspiration toxicity classification

**Specific effects in experiment on an animal**

Chromatropic Acid: LD50/oral/rat = >5000mg/kg  
 Potassium Phosphate Monobasic: LD50/oral/rat =7100mg/kg  
 Potassium Pyrosulfate: LD50/oral/rat =2340mg/kg

**Further information**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

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#### SECTION 12: Ecological information

##### 12.1. Toxicity

No data is available on the product itself. Do not flush into surface water or sanitary sewer system.

##### 12.2. Persistence and degradability

No data is available on the product itself.

##### 12.3. Bioaccumulative potential

No data is available on the product itself.

##### 12.4. Mobility in soil

no data available

##### 12.5. Results of PBT and vPvB assessment

no data available

##### 12.6. Other adverse effects

no data available

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

###### **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 hazardous substances, including mixtures of laboratory chemicals; 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 hazardous substances, including mixtures of laboratory chemicals; 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 hazardous substances, including mixtures of laboratory chemicals; hazardous waste

###### **Contaminated packaging**

Dispose of as unused product.

The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

#### SECTION 14: Transport information

##### **Land transport (ADR/RID)**

###### **Other applicable information (land transport)**

Not subject to transport regulations.

##### **Inland waterways transport (ADN)**

###### **Other applicable information (inland waterways transport)**

Not tested

##### **Marine transport (IMDG)**

###### **Other applicable information (marine transport)**

Not subject to transport regulations.

##### **Air transport (ICAO-TI/IATA-DGR)**

###### **Other applicable information (air transport)**

Not subject to transport regulations.

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**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

no data available

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not relevant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 3 - highly water contaminating

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Changes**

Revision: 22.005.2018  
Safety datasheet sections which have been updated: 2, 7, 16

Revision: 22.01.2018  
Safety datasheet sections which have been updated: 3, 4, 11

Revision: 22.04.2015  
Safety datasheet sections which have been updated: 2

Revision: 03.12.2013  
Safety datasheet sections which have been updated: 2-15

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Acute Tox. 4; H302	
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method

**Relevant H and EUH statements (number and full text)**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**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.)*