

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 26054-00 NitraVer X, Test 'N Tube Reagent

Revision date: 15.08.2018

Product code: 2605400

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

26054-00 NitraVer X, Test 'N Tube 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:

Substance or mixture corrosive to metals: Met. Corr. 1

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes serious eye damage.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

sulphuric acid ... %

Signal word: Danger

Pictograms:



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#### Hazard statements

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

#### Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
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.  
P363 Wash contaminated clothing before reuse.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P390 Absorb spillage to prevent material damage.  
P501 Dispose of contents/container to Disposal.

#### 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]			
7664-93-9	sulphuric acid ... %			80-90 %
	231-639-5	016-020-00-8		
	Skin Corr. 1A; H314			
7732-18-5	Water			10-20 %
	231-791-2			
1309-64-4	antimony trioxide			< 0,5 %
	215-175-0	051-005-00-X		
	Carc. 2; H351			

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 all contaminated clothing immediately.  
Show this safety data sheet to the doctor in attendance.

#### After inhalation

Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Consult a physician.

#### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. Consult a physician.

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Show this safety data sheet to the doctor in attendance.

#### **After contact with eyes**

Rinse immediately with plenty of water for at least 15 minutes. Call a physician immediately.

#### **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.

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

Irritation and corrosion

#### **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**

The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
ABC powder

##### **Unsuitable extinguishing media**

Water

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

The product itself does not burn.  
Gives off hydrogen by reaction with metals. Reacts violently with water.  
Fire may liberate hazardous vapours.

#### **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.

#### **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.

#### **6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

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

Soak up with inert absorbent material and dispose of as hazardous waste.

#### **6.4. Reference to other sections**

None known.

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Avoid contact with skin and eyes.  
Do not breathe vapours or spray mist. Use only in well-ventilated areas.  
General hygiene considerations

##### **Further information on handling**

Observe label precautions.

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**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep away from heat. Keep container tightly closed in a dry and well-ventilated place.

**Hints on joint storage**

Protect against Bases, Oxidizing agents, Metals

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

Reagent for analysis

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
-	Antimony and compounds except stibine (as Sb)	-	0.5		TWA (8 h)	WEL
7664-93-9	Sulphuric acid (mist)	-	0.05		TWA (8 h)	WEL

**Additional advice on limit values**

None known.

**8.2. Exposure controls****Appropriate engineering controls**

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Ensure that eyewash stations and safety showers are close to the workstation location.

**Protective and hygiene measures**

Wash hands before breaks and at the end of workday.

**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: &gt;480 min. In splash contact: Glove

material: nitrile rubber, Layer thickness 0.40 mm, Breakthrough time: &gt; 30 min

**Skin protection**

Avoid contact with skin, eyes and clothing.

**Respiratory protection**

Ensure adequate ventilation, especially in confined areas. Provide appropriate exhaust ventilation at machinery.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: liquid, oily

Colour: colourless

Odour: irritating

pH-Value (at 20 °C): &lt; 1

**Changes in the physical state**

Melting point: no data available

Initial boiling point and boiling range: 210 °C

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Sublimation point:	no data available
Softening point:	no data available
Pour point:	not applicable
:	no data available
Flash point:	not applicable

#### Flammability

Solid:	not applicable
Gas:	not applicable

#### Explosive properties

not applicable

Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	no data available

#### Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	no data available
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#### Oxidizing properties

not applicable

Vapour pressure:	no data available
Vapour pressure:	no data available
Density (at 20 °C):	1,78 g/cm <sup>3</sup>
Bulk density:	not applicable
Water solubility:	not applicable

#### Solubility in other solvents

no data available

Partition coefficient:	no data available
Viscosity / dynamic:	no data available
Viscosity / kinematic:	no data available
Flow time:	no data available
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
Aluminium	

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Risk of violent reaction.: acetic acid, Oxidizing agents, Reducing agents,  
Incompatible materials to avoid: Metals

#### 10.2. Chemical stability

Stable under recommended storage conditions.

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**10.3. Possibility of hazardous reactions**

Contact with metals liberates hydrogen gas.

**10.4. Conditions to avoid**

Extremes of temperature and direct sunlight. Decomposes on heating.

**10.5. Incompatible materials**

Bases, Oxidizing agents

**10.6. Hazardous decomposition products**

Sulphur oxides

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

Also harmful: danger of serious damage to health by prolonged exposure through inhalation. Effects of excessive exposures may include: Cough

**Acute toxicity**

No data is available on the product itself.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1309-64-4	antimony trioxide				
	oral	LD50 > 34600 mg/kg	Rat	IUCLID	

**Irritation and corrosivity**

Causes severe burns.

**Sensitising effects**

No data is available on the product itself.

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

IARC: (International Agency for Research on Cancer) 1

IARC: (International Agency for Research on Cancer) 2B

**STOT-single exposure**

No known effect.

**STOT-repeated exposure**

Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough.

**Aspiration hazard**

No aspiration toxicity classification

**Specific effects in experiment on an animal**

sulphuric acid ... %: LD50/oral/rat = 2140 mg/kg

**Additional information on tests**

no data available

**Further information**

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

**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.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
1309-64-4	antimony trioxide					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Danio rerio		
	Acute algae toxicity	ErC50 67 mg/l	72 h	Selenastrum cparicornutum		
	Acute crustacea toxicity	EC50 > 1000 mg/l	48 h	Daphnia magna		

#### 12.2. Persistence and degradability

no data available

#### 12.3. Bioaccumulative potential

no data available

#### 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

#### Further information

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

## SECTION 14: Transport information

### Land transport (ADR/RID)

- 14.1. UN number:** UN1830
- 14.2. UN proper shipping name:** SULPHURIC ACID with more than 51 % acid
- 14.3. Transport hazard class(es):** 8
- 14.4. Packing group:** II
- Hazard label: 8

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Classification code: C1  
Limited quantity: 1 L  
Transport category: 2  
Hazard No: 80  
Tunnel restriction code: E

#### Other applicable information (land transport)

Excepted Quantities: E2

#### Inland waterways transport (ADN)

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

Not tested

#### Marine transport (IMDG)

**14.1. UN number:** UN1830  
**14.2. UN proper shipping name:** SULPHURIC ACID with more than 51 % acid  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Marine pollutant: --  
Special Provisions: -  
Limited quantity: 1 L  
EmS: F-A, S-B

#### Other applicable information (marine transport)

Excepted Quantities: E2

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

**14.1. UN number:** UN1830  
**14.2. UN proper shipping name:** SULPHURIC ACID with more than 51 % acid  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Limited quantity Passenger: 0.5 L  
IATA-packing instructions - Passenger: 851  
IATA-max. quantity - Passenger: 1 L  
IATA-packing instructions - Cargo: 855  
IATA-max. quantity - Cargo: 30 L

#### Other applicable information (air transport)

Excepted Quantities: E2

Passenger-LQ: Y840

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no



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#### 14.6. Special precautions for user

Use personal protective equipment.

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

not applicable

#### **Other applicable information**

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number 3316, Package group II, EMS Code: F-A, S-P  
These transport data apply to the entire pack

### SECTION 15: Regulatory information

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

##### EU regulatory information

2004/42/EC (VOC): no data available

##### 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): 1 - slightly 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: 15.08.2018

Safety datasheet sections which have been updated: 2, 4, 7, 9, 15

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

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method

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

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H351 Suspected of causing cancer.

#### 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.)*

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**26055-46 NitraVer X, Reagent B**

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

26055-46 NitraVer X, Reagent B

**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

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Resp. Sens. 1

Specific target organ toxicity - single exposure: STOT SE 1

Specific target organ toxicity - repeated exposure: STOT RE 1

Hazard Statements:

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Causes damage to organs.

Causes damage to organs through prolonged or repeated exposure.

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

Quartz

sodium metabisulphite

**Signal word:** Danger

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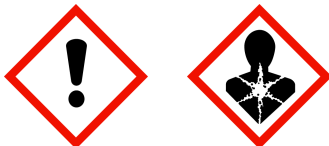
according to Regulation (EC) No 1907/2006

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**Pictograms:**

**Hazard statements**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements**

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

**Additional advice on labelling**

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

**2.3. Other hazards**

no data available

**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]	
14808-60-7	Quartz	60-70 %
	238-878-4	
	Acute Tox. 4, Eye Irrit. 2, STOT SE 1; H302 H319 H370	
57-13-6	Urea	25-35 %
	200-315-5	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319	
129-96-4	Chromotropic acid disodium salt	1-5 %
	204-972-9	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335	
7681-57-4	sodium metabisulphite	1-5 %
	231-673-0	
	016-063-00-2	
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Resp. Sens. 1, STOT SE 3; H332 H302 H315 H318 H334 H335 EUH031	

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

**SECTION 4: First aid measures**

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#### **4.1. Description of first aid measures**

##### **General information**

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

##### **After inhalation**

Move to fresh air.  
If symptoms persist, call a physician.

##### **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.

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

irritant effects, Allergic reactions

#### **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.  
The product itself does not burn.  
Water, Carbon dioxide (CO<sub>2</sub>), Dry powder,

##### **Unsuitable extinguishing media**

No Limit

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

Fire may liberate hazardous vapours.

#### **5.3. Advice for firefighters**

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

##### **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. Ensure adequate ventilation.

#### **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.

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#### 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.  
Avoid contact with skin and eyes.  
Do not breathe vapours/dust.

##### Advice on protection against fire and explosion

None known.

##### Further information on handling

Observe label precautions.

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

##### Requirements for storage rooms and vessels

Keep at temperatures between 10 and 25 °C.  
Keep container tightly closed in a dry and well-ventilated place.

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

Laboratory chemicals

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7681-57-4	Disodium disulphite	-	5		TWA (8 h)	WEL

##### 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.

##### 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  
Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

##### Skin protection

Avoid contact with skin, eyes and clothing.

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**Respiratory protection**

Ensure adequate ventilation, especially in confined areas.

**Environmental exposure controls**

Do not flush into surface water or sanitary sewer system.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	solid	
Colour:	white, dark yellow	
Odour:	odourless	
pH-Value (at 20 °C):		no data available

**Changes in the physical state**

Melting point:		not applicable
Initial boiling point and boiling range:		not applicable
Sublimation point:		no data available
Softening point:		no data available
Pour point:		not applicable
:		no data available
Flash point:		not applicable

**Flammability**

Solid:		not applicable
Gas:		not applicable

**Explosive properties**

not applicable

Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Ignition temperature:		no data available

**Auto-ignition temperature**

Solid:		no data available
Gas:		no data available

Decomposition temperature:		no data available
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**Oxidizing properties**

no data available

Vapour pressure:		no data available
Vapour pressure:		no data available
Density:		no data available
Bulk density:		no data available
Water solubility:		partly 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:		not applicable

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Evaporation rate: not applicable  
 Solvent separation test: not applicable  
 Solvent content: no data available

#### 9.2. Other information

Solid content: no data available  
 no data available

### SECTION 10: Stability and reactivity

#### 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

Reacts with the following substances: Oxidizing agents

#### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.  
 Decomposes on heating.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

No data is available on the product itself.

##### ATEmix calculated

ATE (oral) 743,2 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
14808-60-7	Quartz				
	oral	LD50 mg/kg 500	rat		
57-13-6	Urea				
	oral	LD50 mg/kg 8471	rat		
	dermal	LD50 mg/kg 8200	rat		
7681-57-4	sodium metabisulphite				
	oral	LD50 mg/kg 1131	Rat		
	dermal	LD50 mg/kg >2000	Rat		
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 2,01 mg/l	Rat		

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#### Irritation and corrosivity

May cause eye and skin irritation.

#### Sensitising effects

May cause sensitisation by inhalation.

#### Carcinogenic/mutagenic/toxic effects for reproduction

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### 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 classified as specific target organ toxicant, repeated exposure, category 1.

#### Aspiration hazard

No aspiration toxicity classification

#### Specific effects in experiment on an animal

No toxicology information is available.

#### Additional information on tests

None known.

#### Further information

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

## SECTION 12: Ecological information

### 12.1. Toxicity

No data is available on the product itself.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
57-13-6	Urea					
	Acute fish toxicity	LC50 mg/l	6810	96 h		
	Acute crustacea toxicity	EC50 mg/l	3910	48 h		
7681-57-4	sodium metabisulphite					
	Acute fish toxicity	LC50 220 mg/l	150 -	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50	89 mg/l	48 h	Daphnia magna (Water flea)	

### 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 is available on the product itself.

### 12.5. Results of PBT and vPvB assessment

No data is available on the product itself.

### 12.6. Other adverse effects

No data is available on the product itself.

## SECTION 13: Disposal considerations



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**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.

**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

**Other applicable information**

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number 3316, Package group II, EMS Code: F-A, S-P

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

Water contaminating class (D): 2 - clearly water contaminating

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**15.2. Chemical safety assessment**

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

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

Revision: 22.06.2017

Safety datasheet sections which have been updated: 2, 4, 11, 15

Revision: 11.03.2014

Safety datasheet sections which have been updated: 2-16

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

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Resp. Sens. 1; H334	Calculation method
STOT SE 1; H370	Calculation method
STOT RE 1; H372	

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
EUH031	Contact with acids liberates toxic gas.

**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.)*