

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 07.10.2025

Version number 1

Revision: 07.10.2025

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

1.1 Product identifier

- Trade name: **Nges 114537 (N)**
- Article number: 250358 (part 1)
- CAS number:
7664-93-9
- EC number:
231-639-5

1.2 Relevant identified uses of the substance or mixture and uses advised against:

- Product category: PC21 Laboratory chemicals
- Process category: PROC15 Use as laboratory reagent
- Application of the substance / the preparation: Chemical analytics

1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:
Xylem Analytics Germany GmbH
WTW
Am Achalaich 11
82362 Weilheim
Germany
Tel. +49 881 183-0
- Further information obtainable from: E-mail: Info.WTW@xylem.com

1.4 Emergency telephone number: Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008:
Met. Corr.1 H290 May be corrosive to metals.
Skin Corr. 1A H314 Causes severe skin burns and eye damage.

2.2 Label elements:

- Labelling according to Regulation (EC) No 1272/2008:
The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms:



GHS05

- Signal word: Danger
- Hazard-determining components of labelling:
sulphuric acid
- Hazard statements:
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

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· **Precautionary statements:**

- P234 Keep only in original packaging.
 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].
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P310 Immediately 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.

· **Additional information:**

Product contains: Restricted explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 5 (1) and (3).

· **Labelling of packages where the contents do not exceed 125 ml:**

· **Hazard pictograms:**



GHS05

· **Signal word:** Danger

· **Hazard-determining components of labelling:**

sulphuric acid

· **Hazard statements:**

H314 Causes severe skin burns and eye damage.

· **Precautionary statements:**

- 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].
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P310 Immediately 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.

· **2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Environmental information: The substance/mixture does not contain components with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

Toxicological information: The substance/mixture does not contain components with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

SECTION 3: Composition/information on ingredients

· **3.1 Substances**

· **CAS No. Description**

CAS: 7664-93-9 sulphuric acid

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- **Identification number(s):**
 - **EC number:** 231-639-5
 - **Index number:** 016-020-00-8
- **Specific concentration limits**
 - Skin Corr. 1A; H314: $C \geq 15 \%$
 - Skin Irrit. 2; H315: $5 \% \leq C < 15 \%$
 - Eye Irrit. 2; H319: $5 \% \leq C < 15 \%$
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
 - **General information:**
 - Personal protection for the First Aider.
 - Show this safety data sheet to the attending physician.
 - **After inhalation:**
 - Supply fresh air.
 - Consult a doctor.
 - **After skin contact:**
 - Remove all contaminated clothing immediately.
 - Wash skin with water/shower.
 - Consult a doctor immediately.
 - **After eye contact:**
 - Rinse opened eye for at least 15 minutes under running water.
 - Consult an ophthalmologist immediately.
 - Remove contact lenses.
 - **After swallowing:**
 - Make victim drink water immediately (2 glasses at most).
 - Do not induce vomiting (risk of perforation)
 - Call a doctor immediately.
 - Do not attempt to neutralize.
- **4.2 Most important symptoms and effects, both acute and delayed**
 - The most important known symptoms and effects are described on the labelling (see section 2.2) and/or in chapter 11.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - **Suitable extinguishing agents:** The product is not flammable. Extinguishing agent to suit environment.
 - **For safety reasons unsuitable extinguishing agents:**
 - There are no extinguishing agent restrictions for this substance/mixture.
- **5.2 Special hazards arising from the substance or mixture**
 - In case of fire, the following can be released:
 - Sulphur oxides (SOx)
- **5.3 Advice for firefighters**
 - **Protective equipment:**
 - Stay in the danger zone only with self-contained breathing apparatus. Avoid skin contact by keeping a safe distance or wearing suitable protective clothing.
 - **Additional information**
 - Suppress gases/fumes/haze with water spray.

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Do not allow extinguishing water to enter the surface water or groundwater system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment (see section 8).

· For non-emergency personnel

Do not inhale vapour/aerosol.

Avoid contact with substance.

Ensure adequate ventilation.

Clear danger zone, proceed according to emergency plan,

Call in experts.

· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Seal the sewerage system. Collect, dike and pump out.

Observe possible material restrictions (see information in section 7 or section 10).

Carefully absorb with liquid-binding material, e.g. Chemizorb®, and dispose of.

Wash off residuals with water.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Wear personal protective equipment (see section 8)

· **Information about fire - and explosion protection:** No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Requirements to be met by storerooms and receptacles:

Do not use metal containers.

Keep container tightly closed.

· **Information about storage in one common storage facility:** Do not store together with alkalis (caustic solutions).

· **Further information about storage conditions:** See product label for recommended storage temperature.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 7664-93-9 sulphuric acid

IOELV Long-term value: 0.05 mg/m³

· **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

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· **General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and at the end of work.

· **Individual protection measures, such as personal protective equipment**

· **Respiratory protection:**

Required if vapours or aerosols are present.

Recommended filter type: Combination filter ABEK

· **Hand protection** Protective gloves

· **Material of gloves**

- For full contact:

Fluorocarbon rubber (Viton)

Recommended material thickness: ≥ 0.7 mm

Breakthrough time: 480 min

- For splash contact:

Butyl rubber

Recommended thickness of the material: ≥ 0.7 mm

Breakthrough time: 120 min

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.

· **Eye/face protection** Tightly sealed goggles

· **Body protection:** Acid resistant protective clothing

· **Environmental exposure controls** Do not allow product to reach ground water, water course or sewage system.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Liquid

· **Colour:**

Colourless

· **Odour:**

Odourless

· **Odour threshold:**

Not applicable.

· **Melting point/freezing point:**

-20 °C

· **Boiling point or initial boiling point and boiling range** No data available.

· **Flammability**

Product is not flammable.

· **Flash point:**

Not applicable.

· **Decomposition temperature:**

No data available.

· **pH (49 g/l) at 25 °C**

0.3

· **Viscosity:**

· **Kinematic viscosity**

No data available.

· **Dynamic viscosity at 20 °C:**

24 mPas

· **Solubility**

· **water:**

Soluble (caution: strong heat development!)

· **Partition coefficient n-octanol/water (log value)**

No data available.

· **Vapour pressure at 20 °C:**

ca. 0.0001 hPa

· **Density and/or relative density**

· **Density at 20 °C:**

1.84 g/cm³

· **Relative gas density**

ca. 3.4

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· 9.2 Other information	
· Important information on protection of health and environment, and on safety.	
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Softening point/range	
· Oxidising properties	Fire-promoting potential.
· Information with regard to physical hazard classes	
· Corrosive to metals	May be corrosive to metals.

SECTION 10: Stability and reactivity

· 10.1 Reactivity

Has a corrosive effect.
Strong oxidising agent.

· 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

The product is chemically stable under normal ambient conditions (room temperature).

· 10.3 Possibility of hazardous reactions

There is a risk of explosion and/or formation of toxic gases with the following substances:

Alkali metals
Alkali compounds
Ammonia
Aldehydes
Acetonitrile
Alkaline earth metals
Lye
Acids
Alkaline earth compounds
Metals and metal alloys
Phosphorus oxides
Phosphorus
Hydrides
Halogen-halogen compounds
Halogen-oxygen compounds
Permanganates
Nitrates
Carbides
Flammable substances
organic solvents
Acetylides
Nitriles
organic nitro compounds
Anilines
Peroxides
Picrates
Nitrides
Lithium silicide
Iron(III) compounds
Bromates
Chlorates
Amines
Perchlorates

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Hydrogen peroxide

- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Animal and plant tissues.
Hydrogen is released through reaction with metals.
- **10.6 Hazardous decomposition products:** In case of fire: See section 5.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- **Acute toxicity**
No quantitative toxicity data are available for this product.
Based on available data, the classification criteria are not met.
- **Acute toxicity estimate of the mixture (ATE) - Calculation method:**

· **LD/LC50 values relevant for classification:**

CAS: 7664-93-9 sulphuric acid

Oral	LD50	2140 mg/kg (Rat) (ECHA)
Inhalative	LC50	510 mg/m ³ , 2 h (Rat) (IUCLID)

· **Primary irritant effect:**

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
Causes serious eye damage.
Risk of blindness!

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

· **Additional toxicological information:**

- **Acute effects (acute toxicity, irritation and corrosivity):**
If ingested, severe burns of the mouth and throat, as well as a danger of the perforation of the oesophagus and the stomach.

· 11.2 Information on other hazards

- **Endocrine disrupting properties** Substance is not listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· **Aquatic toxicity:**

CAS: 7664-93-9 sulphuric acid

EC50 (static)	> 100 mg/l, 48 h (Daphnia magna) (OECD 202)
ErC50 (static)	> 100 mg/l, 72 h (Desmodesmus subspicatus) (OECD 201)
IC50	0.16 – 0.59 mg/l, 96 h (Chlorella vulgaris) (IUCLID)

- **12.2 Persistence and degradability** The methods for determining biodegradability are not applicable to inorganic substances.
- **12.3 Bioaccumulative potential** No further relevant information available.

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- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
This product does not contain components classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in concentrations of 0.1% or higher.
- **12.6 Endocrine disrupting properties**
The substance/mixture does not contain components that have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.
- **12.7 Other adverse effects**
 - **General notes:**
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
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.
Do not allow product to reach ground water, water course or sewage system.
 - **Additional ecological information:**
 - **General notes:**
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.
 - **Additional ecological information:**
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.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**
Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.
 - **Uncleaned packaging:**
 - **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

- | | |
|---|-------------------------|
| · 14.1 UN number or ID number
· ADR/RID, IMDG | UN1830 |
| · 14.2 UN proper shipping name
· ADR/RID, IMDG | SULPHURIC ACID |
| · 14.3 Transport hazard class(es)
· ADR/RID, IMDG, IATA | |
|  | |
| · Class | 8 Corrosive substances. |

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· Label	8
· 14.4 Packing group	
· ADR/RID, IMDG, IATA	II
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Warning: Corrosive substances.
· Hazard identification number (Kemler code):	80
· EMS Number:	F-A,S-B
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· ADR/RID	
· Transport category	2
· Tunnel restriction code	E
· UN "Model Regulation":	UN 1830 SULPHURIC ACID, 8, II
· Further information:	The substance / mixture is part of a chemical test kit. - Dangerous goods classification for Nges 14537, article 250358: UN3316, Chemical Kit, 9, II

SECTION 15: Regulatory information

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

- Directive 2012/18/EU
 - Named dangerous substances - ANNEX I Substance is not listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
Substance is not listed.
- REGULATION (EU) 2019/1148
 - Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
Limit value: > 15 – ≤ 40 %
 - Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.
 - Regulation (EC) No 273/2004 on drug precursors 3
 - Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
3

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· Date of previous version: 07.10.2025

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Met. Corr. 1: Corrosive to metals – Category 1

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

EU

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

- **1.1 Product identifier**
 - **Trade name:** **Nges 114537 (N-1K)**
 - **Article number:** 250358 (part 2)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
 - **Product category:** PC21 Laboratory chemicals
 - **Process category:** PROC15 Use as laboratory reagent
 - **Application of the substance / the preparation:** Chemical analytics
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Xylem Analytics Germany GmbH
WTW
Am Achalaich 11
82362 Weilheim
Germany
Tel. +49 881 183-0
 - **Further information obtainable from:** E-mail: Info.WTW@xylem.com
- **1.4 Emergency telephone number:** Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008:**

Ox. Sol. 3	H272 May intensify fire; oxidiser.
Acute Tox. 4	H302 Harmful if swallowed.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.
- **2.2 Label elements:**
 - **Labelling according to Regulation (EC) No 1272/2008:**
The product is classified and labelled according to the CLP regulation.
 - **Hazard pictograms:**


GHS03


GHS07


GHS08
 - **Signal word:** Danger
 - **Hazard-determining components of labelling:**
dipotassium peroxodisulphate
potassium carbonate

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· **Hazard statements:**

H272 May intensify fire; oxidiser.

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.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

· **Precautionary statements:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

· **Labelling of packages where the contents do not exceed 125 ml:**

· **Hazard pictograms:**



GHS03

GHS07

GHS08

· **Signal word:** Danger

· **Hazard-determining components of labelling:**

dipotassium peroxodisulphate

potassium carbonate

· **Hazard statements:**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

· **Precautionary statements:**

P302+P352 IF ON SKIN: Wash with plenty of water.

· **2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Environmental information: The substance/mixture does not contain components with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

Toxicological information: The substance/mixture does not contain components with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Dangerous components:**

CAS: 7727-21-1 EINECS: 231-781-8 Index number: 016-061-00-1	dipotassium peroxodisulphate ⚠ Ox. Sol. 3, H272; ⚠ Resp. Sens. 1, H334; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	≥ 50 - < 70%
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Trade name: **Nges 114537 (N-1K)**

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CAS: 584-08-7	potassium carbonate	≥ 30 - < 50%
EINECS: 209-529-3	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:**

Personal protection for the First Aider.
Show this safety data sheet to the attending physician.

· **After inhalation:**

Supply fresh air.
Consult a doctor.

· **After skin contact:**

Remove all contaminated clothing immediately.
Wash skin with water or shower.
Consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water.
Consult an ophthalmologist.
Remove contact lenses.

· **After swallowing:**

Make victim drink water immediately (2 glasses at most).
Consult a doctor.

· 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described on the labelling (see section 2.2) and/or in chapter 11.

· **Hazards** May produce an allergic reaction.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· **Suitable extinguishing agents:** The product is not flammable. Extinguishing agent to suit environment.

· **For safety reasons unsuitable extinguishing agents:**

There are no extinguishing agent restrictions for this substance/mixture.

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Sulphur oxides (SO_x)

Potassium oxides

Promotes fire by releasing oxygen.

· 5.3 Advice for firefighters

· **Protective equipment:**

Stay in the danger zone only with self-contained breathing apparatus. Avoid skin contact by keeping a safe distance or wearing suitable protective clothing.

· **Additional information**

Suppress gases/fumes/haze with water spray.

Do not allow extinguishing water to enter the surface water or groundwater system.

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SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment (see section 8).

· For non-emergency personnel

Avoid inhalation of dusts.

Avoid contact with substances.

Ensure adequate ventilation.

Clear danger zone, proceed according to emergency plan,

Call in experts.

· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Seal the sewerage system. Collect, dike and pump out.

Observe possible material restrictions (see information in section 7 or section 10).

Pick up dry.

Avoid dust formation.

Dispose of the material collected according to regulations.

Wash off residuals with water.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Wear personal protective equipment (see section 8)

· **Information about fire - and explosion protection:** Keep away from naked flames, hot surfaces and sources of ignition.

· 7.2 Conditions for safe storage, including any incompatibilities

· **Requirements to be met by storerooms and receptacles:** Recommendation: Store in the original container.

· **Information about storage in one common storage facility:** Store away from flammable substances.

· **Further information about storage conditions:**

Keep container tightly sealed.

Keep or store under lock and key or in such a way that only authorised and reliable persons have access.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· **Ingredients 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 valid during the making were used as basis.

· 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

· **General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Take off contaminated clothing and wash it before reuse.

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Wash hands before breaks and at the end of work.

· **Individual protection measures, such as personal protective equipment**

· **Respiratory protection:**

Required when dusts are formed.

Recommended filter type: P2

· **Hand protection** Protective gloves

· **Material of gloves**

- For full contact:

Nitrile rubber, NBR

Recommended material thickness: ≥ 0.11 mm

Breakthrough time: 480 min

- For splash contact:

Nitrile rubber

Recommended thickness of the material: ≥ 0.11 mm

Breakthrough time: 480 min

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.

· **Eye/face protection** Safety goggles with side protection

· **Body protection:** Protective clothing

· **Environmental exposure controls** Do not allow product to reach ground water, water course or sewage system.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Solid

· **Colour:**

White

· **Odour:**

Odourless

· **Melting point/freezing point:**

No data available.

· **Boiling point or initial boiling point and boiling range**

No data available.

· **Flammability**

Product is not flammable.

· **Flash point:**

Not applicable.

· **Decomposition temperature:**

> 100 °C

· **pH**

No data available.

· **Viscosity:**

· **Kinematic viscosity**

No data available.

· **Dynamic viscosity:**

No data available.

· **Solubility**

· **water:**

Soluble (25 °C)

· **Partition coefficient n-octanol/water (log value)**

No data available.

· **Vapour pressure:**

No data available.

· **Density and/or relative density**

· **Density:**

No data available.

· **Bulk density:**

750 – 800 kg/m³

· **Relative gas density**

No data available.

· **Particle characteristics**

No data available.

· **9.2 Other information**

· **Important information on protection of health and environment, and on safety.**

· **Ignition temperature:**

Product is not selfigniting.

· **Explosive properties:**

Product does not present an explosion hazard.

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- Information with regard to physical hazard classes
- Oxidising solids

Promotes fire.
Strong oxidising agent.

SECTION 10: Stability and reactivity

- 10.1 Reactivity** Strong oxidising agent.
- 10.2 Chemical stability** Sensitive to moisture.
 - Thermal decomposition / conditions to be avoided:**
The product is chemically stable under normal ambient conditions (room temperature).
- 10.3 Possibility of hazardous reactions**
Violent reactions possible with:
Metals and metal alloys
Heavy metals
Silver compounds
Reducing agent
Flammable substances
Acids and bases.
Hydrides
- 10.4 Conditions to avoid**
Strong heating (decomposition).
Humidity.
- 10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products:** In case of fire: See section 5.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
 - Acute toxicity** Harmful if swallowed.

Acute toxicity estimate of the mixture (ATE) - Calculation method:

Oral	ATE	1058 mg/kg (.)
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LD/LC50 values relevant for classification:

CAS: 7727-21-1 dipotassium peroxodisulphate

Oral	LD50	700 mg/kg (Rat) (OECD 401, (NH ₄) ₂ S ₂ O ₈)
Dermal	LD50	> 2000 mg/kg (Rat) (US-EPA, (NH ₄) ₂ S ₂ O ₈)
Inhalative	LC50	≥ 2.95 mg/l, 4 h (Rat) (US-EPA, dust/fog, (NH ₄) ₂ S ₂ O ₈)

CAS: 584-08-7 potassium carbonate

Oral	LD50	> 2000 mg/kg (Rat) (OECD 401)
Dermal	LD50	> 2000 mg/kg (rabbit) (US-EPA)
Inhalative	LC50	4.96 mg/l, 4.5 h (Rat) (US-EPA, dust/fog)

- Primary irritant effect:**
 - Skin corrosion/irritation** Causes skin irritation.
 - Serious eye damage/irritation** Causes serious eye irritation.
- Respiratory or skin sensitisation**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
- Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

· Endocrine disrupting properties

The substance/mixture does not contain components that have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 7727-21-1 dipotassium peroxodisulphate

EC50 (static)	120 mg/l, 48 h (Daphnia magna) (ECHA, (NH ₄)S ₂ O ₈)
EC50 (static)	36 mg/l, 18 h (Pseudomonas putida) (ECHA, (NH ₄)S ₂ O ₈)
ErC50 (static)	320 mg/l, 72 h (Phaeodactylum tricornutum) (OECD 201, (NH ₄)S ₂ O ₈)
LC50 (static)	76.3 mg/l, 96 h (Oncorhynchus mykiss) (ECHA, (NH ₄)S ₂ O ₈)

CAS: 584-08-7 potassium carbonate

EC50 (static)	200 mg/l, 48 h (Daphnia pulex) (ECHA)
Flow-through test LC50	68 mg/l, 96 h (Oncorhynchus mykiss) (ECHA)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
This product does not contain components classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in concentrations of 0.1% or higher.
- **12.6 Endocrine disrupting properties**
The substance/mixture does not contain components that have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.
- **12.7 Other adverse effects**
 - **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.
 - **Additional ecological information:**
 - **General notes:** Not known to be hazardous to water.
 - **Additional ecological information:** Not known to be hazardous to water.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

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· **Uncleaned packaging:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN number or ID number	
· ADR/RID, IMDG, IATA	UN1492
· 14.2 UN proper shipping name	
· ADR/RID, IMDG, IATA	POTASSIUM PERSULPHATE
· 14.3 Transport hazard class(es)	
· ADR/RID, IMDG, IATA	
	
· Class	5.1 Oxidising substances.
· Label	5.1
· 14.4 Packing group	
· ADR/RID, IMDG, IATA	III
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Warning: Oxidising substances.
· EMS Number:	F-A,S-Q
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· ADR/RID	
· Transport category	3
· Tunnel restriction code	E
· UN "Model Regulation":	UN 1492 POTASSIUM PERSULPHATE, 5.1, III
· Further information:	The substance / mixture is part of a chemical test kit. - Dangerous goods classification for Nges 114537, article 250358: UN3316, Chemical Kit, 9, II

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category** P8 OXIDISING LIQUIDS AND SOLIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

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· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· **Relevant phrases**

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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.

· **Date of previous version:** 25.08.2025

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Ox. Sol. 3: Oxidizing solids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

- **1.1 Product identifier**
 - **Trade name:** **Nges 114537 (N-2K)**
 - **Article number:** 250358 (part 3)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
 - **Product category:** PC21 Laboratory chemicals
 - **Process category:** PROC15 Use as laboratory reagent
 - **Application of the substance / the preparation:** Chemical analytics
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Xylem Analytics Germany GmbH
WTW
Am Achalaich 11
82362 Weilheim
Germany
Tel. +49 881 183-0
 - **Further information obtainable from:** E-mail: Info.WTW@xylem.com
- **1.4 Emergency telephone number:** Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008:**
Met. Corr.1 H290 May be corrosive to metals.
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
- **2.2 Label elements:**
 - **Labelling according to Regulation (EC) No 1272/2008:**
The product is classified and labelled according to the CLP regulation.
 - **Hazard pictograms:**



GHS05

- **Signal word:** Danger
- **Hazard-determining components of labelling:**
Sodium hydroxide
- **Hazard statements:**
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
- **Precautionary statements:**
P234 Keep only in original packaging.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P310 Immediately 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.
- P363 Wash contaminated clothing before reuse.

· **Labelling of packages where the contents do not exceed 125 ml:**

· **Hazard pictograms:**



GHS05

· **Signal word:** Danger

· **Hazard-determining components of labelling:**

Sodium hydroxide

· **Hazard statements:**

H314 Causes severe skin burns and eye damage.

· **Precautionary statements:**

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P310 Immediately 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.
- P363 Wash contaminated clothing before reuse.

· **2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Environmental information: The substance/mixture does not contain components with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

Toxicological information: The substance/mixture does not contain components with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Dangerous components:**

CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6	Sodium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	≥ 30 - < 50%
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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **General information:** No special precautions required.
- **After inhalation:**
Supply fresh air.
Consult a doctor.
- **After skin contact:**
Remove all contaminated clothing immediately.
Wash skin with water/shower.
Consult a doctor immediately.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
Consult an ophthalmologist immediately.
Remove contact lenses.
- **After swallowing:**
Make victim drink water immediately (2 glasses at most).
Do not induce vomiting (risk of perforation)
Call a doctor immediately.
Do not attempt to neutralize.

· 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described on the labelling (see section 2.2) and/or in chapter 11.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- **Suitable extinguishing agents:** The product is not flammable. Extinguishing agent to suit environment.
- **For safety reasons unsuitable extinguishing agents:**
There are no extinguishing agent restrictions for this substance/mixture.

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:
Sodium oxides

· 5.3 Advice for firefighters

- **Protective equipment:**
Stay in the danger zone only with self-contained breathing apparatus. Avoid skin contact by keeping a safe distance or wearing suitable protective clothing.
- **Additional information**
Suppress gases/fumes/haze with water spray.
Do not allow extinguishing water to enter the surface water or groundwater system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment (see section 8).

· **For non-emergency personnel**

- Do not inhale vapour/aerosol.
- Avoid contact with substance.
- Ensure adequate ventilation.
- Clear danger zone, proceed according to emergency plan,

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Call in experts.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Seal the sewerage system. Collect, dike and pump out.

Observe possible material restrictions (see information in section 7 or section 10).

Carefully absorb with liquid-binding material, e.g. Chemizorb®, and dispose of.

Wash off residuals with water.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Wear personal protective equipment (see section 8)

· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Requirements to be met by storerooms and receptacles:** Do not use metal containers.

· **Information about storage in one common storage facility:** Do not store together with acids.

· **Further information about storage conditions:**

Keep container tightly sealed.

See product label for recommended storage temperature.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients 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 valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and at the end of work.

· **Individual protection measures, such as personal protective equipment**

· **Respiratory protection:**

Required if vapours or aerosols are present.

Recommended filter type: Combination filter ABEK

· **Hand protection** Protective gloves

· **Material of gloves**

- For full contact:

Nitrile rubber

Recommended thickness of the material: ≥ 0.11 mm

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Breakthrough time: 480 min

- For splash contact:

Nitrile rubber, NBR

Recommended material thickness: ≥ 0.11 mm

Breakthrough time: 480 min

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.

· **Eye/face protection** Tightly sealed goggles

· **Body protection:** Protective clothing

· **Environmental exposure controls** Do not allow product to reach ground water, water course or sewage system.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state	Liquid
· Colour:	Colourless
· Odour:	Odourless
· Melting point/freezing point:	9 °C
· Boiling point or initial boiling point and boiling range	No data available.
· Flammability	Product is not flammable.
· Flash point:	Not applicable.
· Decomposition temperature:	No data available.
· pH at 20 °C	14
· Viscosity:	
· Kinematic viscosity	No data available.
· Dynamic viscosity at 20 °C:	19 mPas
· Solubility	
· water:	Soluble (20 °C)
· Partition coefficient n-octanol/water (log value)	No data available.
· Vapour pressure at 20 °C:	ca. 8 hPa
· Density and/or relative density	
· Density at 20 °C:	1.35 g/cm ³
· Relative gas density	No data available.

· 9.2 Other information

· Information with regard to physical hazard classes

· **Corrosive to metals** May be corrosive to metals.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· 10.2 Chemical stability

· **Thermal decomposition / conditions to be avoided:**

The product is chemically stable under normal ambient conditions (room temperature).

· 10.3 Possibility of hazardous reactions

Risk of final ignition or formation of flammable gases or vapours with:

Metals and metal alloys

Reacts with metals forming hydrogen.

Violent reactions possible with:

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Ammonium compounds
Cyanide
organic nitro compounds
Organic, flammable substances
Phenols
Alkaline earth metals in powder form
Acids
Nitriles
Magnesium

- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Glass, metals, quartz/silica ceramics.
Various plastics
Animal and plant tissues.
- **10.6 Hazardous decomposition products:** In case of fire: See section 5.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- **Acute toxicity**
No quantitative toxicity data are available for this product.
Based on available data, the classification criteria are not met.
- **Acute toxicity estimate of the mixture (ATE) - Calculation method:**

· **LD/LC50 values relevant for classification:**

CAS: 1310-73-2 Sodium hydroxide

Oral	LD50	2000 mg/kg (Rat)
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· **Primary irritant effect:**

- **Skin corrosion/irritation**
Causes severe skin burns.
Risk of necrosis.
- **Serious eye damage/irritation**
Causes serious eye damage.
Risk of blindness!
Risk of necrosis.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

· **Additional toxicological information:**

- **Acute effects (acute toxicity, irritation and corrosivity):**
If ingested, severe burns of the mouth and throat, as well as a danger of the perforation of the oesophagus and the stomach.
Symptoms: mucous membrane irritation, coughing, shortness of breath.
Possible consequences: Damage to the respiratory tract

· 11.2 Information on other hazards

· **Endocrine disrupting properties**

The substance/mixture does not contain components that have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

EU

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 1310-73-2 Sodium hydroxide

EC50	40.4 mg/l, 48 h (Ceriodaphnia) (ECHA)
EC50	22 mg/l, 15 min (Photobacterium phosphoreum) (supplier SDS)
LC50	125 mg/l, 96 h (Gambusia affinis) (ECOTOX)

· **12.2 Persistence and degradability** The methods for determining biodegradability are not applicable to inorganic substances.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

This product does not contain components classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in concentrations of 0.1% or higher.

· 12.6 Endocrine disrupting properties

The substance/mixture does not contain components that have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

· 12.7 Other adverse effects

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Detrimental effect due to shift of pH value.
Do not allow product to reach ground water, water course or sewage system.

· Additional ecological information:

- **General notes:** Not known to be hazardous to water.
- **Additional ecological information:** Not known to be hazardous to water.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

· Uncleaned packaging:

· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN number or ID number

· **ADR/RID, IMDG, IATA** UN1824

· 14.2 UN proper shipping name

· **ADR/RID, IMDG, IATA** SODIUM HYDROXIDE SOLUTION

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· 14.3 Transport hazard class(es)	
· ADR/RID, IMDG, IATA	
	
· Class	8 Corrosive substances.
· Label	8
· 14.4 Packing group	
· ADR/RID, IMDG, IATA	
II	
· 14.5 Environmental hazards:	
Not applicable.	
· 14.6 Special precautions for user	
Warning: Corrosive substances.	
· EMS Number:	
F-A,S-B	
· 14.7 Maritime transport in bulk according to IMO instruments	
Not applicable.	
· ADR/RID	
· Transport category	2
· Tunnel restriction code	E
· UN "Model Regulation":	
UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II	
· Further information:	
The substance / mixture is part of a chemical test kit.	
- Dangerous goods classification for Nges 114537, article 250358:	
UN3316, Chemical Kit, 9, II	

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
· Directive 2012/18/EU	
· Named dangerous substances - ANNEX I None of the ingredients is listed.	
· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3	
· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II	
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))	
None of the ingredients is listed.	
· Annex II - REPORTABLE EXPLOSIVES PRECURSORS	
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 on drug precursors	
None of the ingredients is listed.	
· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	
None of the ingredients is listed.	

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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· Relevant phrases

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· **Date of previous version:** 25.08.2025

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Met. Corr. 1: Corrosive to metals – Category 1

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

1.1 Product identifier

- Trade name: **Nges 114537 (N-3K)**
- Article number: 250358 (part 4)
- CAS number:
99-10-5
- EC number:
202-730-7

1.2 Relevant identified uses of the substance or mixture and uses advised against:

- Product category: PC21 Laboratory chemicals
- Process category: PROC15 Use as laboratory reagent
- Application of the substance / the preparation: Chemical analytics

1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:
Xylem Analytics Germany GmbH
WTW
Am Achalaich 11
82362 Weilheim
Germany
Tel. +49 881 183-0
- Further information obtainable from: E-mail: Info.WTW@xylem.com

1.4 Emergency telephone number: Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008:

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS07

Signal word: Warning

Hazard statements:

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

Precautionary statements:

- P264 Wash thoroughly after handling.
- P280 Wear protective gloves / eye protection / face protection.

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P302+P352 IF ON SKIN: Wash with plenty of water.

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

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

· **Labelling of packages where the contents do not exceed 125 ml:**

· **Hazard pictograms:**



GHS07

· **Signal word:** Warning

· **Hazard statements:** Void

· **2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Environmental information: The substance/mixture does not contain components with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

Toxicological information: The substance/mixture does not contain components with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

SECTION 3: Composition/information on ingredients

· **3.1 Substances**

· **CAS No. Description**

CAS: 99-10-5 3,5-dihydroxybenzoic acid

· **Identification number(s):**

· **EC number:** 202-730-7

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:** Show this safety data sheet to the attending physician.

· **After inhalation:** Supply fresh air.

· **After skin contact:**

Remove all contaminated clothing immediately.

Wash skin with water or shower.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

Consult an ophthalmologist.

Remove contact lenses.

· **After swallowing:**

Make victim drink water immediately (2 glasses at most).

Consult a doctor.

· **4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described on the labelling (see section 2.2) and/or in chapter 11.

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- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- **Suitable extinguishing agents:** Water, carbon dioxide (CO₂), foam, extinguishing powder

- **For safety reasons unsuitable extinguishing agents:**

There are no extinguishing agent restrictions for this substance/mixture.

· 5.2 Special hazards arising from the substance or mixture

Flammable.

Explosive mixtures with air are possible when heated to high temperatures.

In case of fire, formation of hazardous combustion gases or vapours possible.

· 5.3 Advice for firefighters

- **Protective equipment:**

Stay in the danger zone only with self-contained breathing apparatus. Avoid skin contact by keeping a safe distance or wearing suitable protective clothing.

- **Additional information**

Suppress gases/fumes/haze with water spray.

Do not allow extinguishing water to enter the surface water or groundwater system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment (see section 8).

- **For non-emergency personnel**

Avoid inhalation of dusts.

Avoid contact with substances.

Ensure adequate ventilation.

Clear danger zone, proceed according to emergency plan,

Call in experts.

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Seal the sewerage system. Collect, dike and pump out.

Observe possible material restrictions (see information in section 7 or section 10).

Pick up dry.

Avoid dust formation.

Dispose of the material collected according to regulations.

Wash off residuals with water.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Wear personal protective equipment (see section 8)

- **Information about fire - and explosion protection:** No special measures required.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Requirements to be met by storerooms and receptacles:** Recommendation: Store in the original container.

- **Information about storage in one common storage facility:** No special requirements.

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· **Further information about storage conditions:**

Keep container tightly sealed.

See product label for recommended storage temperature.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any substances with occupational exposure limits.

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and at the end of work.

· **Individual protection measures, such as personal protective equipment**

· **Respiratory protection:**

Required when dusts are formed.

Recommended filter type: P2

· **Hand protection** Protective gloves

· **Material of gloves**

- For full contact:

Nitrile rubber

Recommended thickness of the material: ≥ 0.11 mm

Breakthrough time: 480 min

- For splash contact:

Nitrile rubber, NBR

Recommended material thickness: ≥ 0.11 mm

Breakthrough time: 480 min

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.

· **Eye/face protection** Safety goggles with side protection

· **Body protection:** Protective clothing

· **Environmental exposure controls** Do not allow product to reach ground water, water course or sewage system.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Solid

· **Colour:**

Beige

· **Odour:**

Odourless

· **Melting point/freezing point:**

236 – 238 °C

· **Boiling point or initial boiling point and boiling range**

No data available.

· **Flammability**

Product is not flammable.

· **Flash point:**

200 °C (cc)

· **Decomposition temperature:**

No data available.

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· pH	No data available.
· Solubility	
· water at 20 °C:	84 g/l
· Partition coefficient n-octanol/water (log value)	No data available.
· Vapour pressure:	No data available.
· Density and/or relative density	
· Density:	No data available.
· Bulk density:	ca. 700 kg/m ³
· Particle characteristics	No data available.
· 9.2 Other information	
· Information with regard to physical hazard classes	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity

Explosive mixtures with air are possible when heated to high temperatures.

A range from approx. 15 Kelvin below the flash point is considered critical.

For flammable, organic substances and mixtures in general, the following applies: With a correspondingly fine distribution, a dust explosion capability can generally be assumed in a whirled-up state.

· 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

The product is chemically stable under normal ambient conditions (room temperature).

· 10.3 Possibility of hazardous reactions

Violent reactions possible with:

Pile

Oxygen

Strong oxidising agents

· 10.4 Conditions to avoid Strong heating

· 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: In case of fire: See section 5.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity

No quantitative toxicity data are available for this product.

Based on available data, the classification criteria are not met.

· Acute toxicity estimate of the mixture (ATE) - Calculation method:

· Primary irritant effect:

· Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Causes serious eye irritation.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity Based on available data, the classification criteria are not met.

· Reproductive toxicity Based on available data, the classification criteria are not met.

· STOT-single exposure Based on available data, the classification criteria are not met.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

· Aspiration hazard Based on available data, the classification criteria are not met.

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· 11.2 Information on other hazards

- **Endocrine disrupting properties** Substance is not listed.

SECTION 12: Ecological information

· 12.1 Toxicity

- **Aquatic toxicity:** No further relevant information available.

· 12.2 Persistence and degradability

No further relevant information available.

· 12.3 Bioaccumulative potential

No further relevant information available.

· 12.4 Mobility in soil

No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

This product does not contain components classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in concentrations of 0.1% or higher.

· 12.6 Endocrine disrupting properties

The substance/mixture does not contain components that have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

· 12.7 Other adverse effects

· General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.

· Additional ecological information:

- **General notes:** Not known to be hazardous to water.
- **Additional ecological information:** Not known to be hazardous to water.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

· Uncleaned packaging:

· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· 14.1 UN number or ID number

- ADR/RID, IMDG, IATA
- Void

· 14.2 UN proper shipping name

- ADR/RID, IMDG, IATA
- Void

· 14.3 Transport hazard class(es)

- ADR/RID, ADN, IMDG, IATA
 - Class
- Void

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· 14.4 Packing group	
· ADR/RID, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I** Substance is not listed.
 - **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
Substance is not listed.
 - **REGULATION (EU) 2019/1148**
 - **Annex I - RESTRICTED EXPLOSIVES PRECURSORS** (Upper limit value for the purpose of licensing under Article 5(3))
Substance is not listed.
 - **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** Substance is not listed.
 - **Regulation (EC) No 273/2004 on drug precursors** Substance is not listed.
 - **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- **Date of previous version:** 07.10.2025
- **Abbreviations and acronyms:**
 - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - Skin Irrit. 2: Skin corrosion/irritation – Category 2
 - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2