

Safety data sheet

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

Printing date 07.10.2025

Version number 1

Revision: 18.08.2025

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

- **1.1 Product identifier**
 - **Trade name:** **N2/25 (NO3-)**
 - **Article number:** 252073 (part 1)
 - **Registration number** This product is a mixture. REACH registration numbers see section 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:**
sulphuric acid
phosphoric acid
 - **Hazard statements:**
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
 - **Precautionary statements:**
P234 Keep only in original packaging.

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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.

· **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
 phosphoric acid

· **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.

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.

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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Dangerous components:

CAS: 7664-38-2 EINECS: 231-633-2 Index number: 015-011-00-6	phosphoric acid ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	≥ 30 - < 50%
CAS: 7664-93-9 EINECS: 231-639-5 Index number: 016-020-00-8	sulphuric acid ⚠ Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 15 % Skin Irrit. 2; H315: 5 % ≤ C < 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 %	≥ 30 - < 50%

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)

Phosphorus oxides (e.g. P2O5)

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· 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,

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 alkalis (caustic solutions).

· **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.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 7664-38-2 phosphoric acid	
IOELV	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³
CAS: 7664-93-9 sulphuric acid	
IOELV	Long-term value: 0.05 mg/m ³

· **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.
Preventive skin protection according to the skin protection plan.
Wash hands before breaks and at the end of work.

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

· **Respiratory protection:** Use suitable respiratory protective device only when aerosol or mist is formed.

· **Recommended Filter type:** Combination filter ABEK-P2

· **Hand protection** Protective gloves

· **Material of gloves**

- For full contact:

Natural rubber latex

Recommended thickness of the material: ≥ 0.6 mm

Breakthrough time: 480 min

- For splash contact:

Natural rubber latex

Recommended material thickness: ≥ 0.6 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:** 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:**

No data available.

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

No data available.

· **Flammability**

Product is not flammable.

· **Flash point:**

Not applicable.

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· Decomposition temperature: · pH at 20 °C · Viscosity: · Kinematic viscosity · Dynamic viscosity: · Solubility · water: · Partition coefficient n-octanol/water (log value) · Vapour pressure: · Density and/or relative density · Density at 20 °C: · Relative gas density	No data available. < 1 No data available. No data available. Soluble (25 °C) No data available. No data available. ca. 1.73 g/cm³ No data available.
· 9.2 Other information · Important information on protection of health and environment, and on safety. · Ignition temperature: · Explosive properties: · Change in condition · Evaporation rate	Product is not selfigniting. Product does not present an explosion hazard. No data available.
· Information with regard to physical hazard classes · Oxidising liquids · Corrosive to metals	Fire-promoting potential. 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

Violent reactions possible with:

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

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Nitriles
organic nitro compounds
Anilines
Peroxides
Picrates
Nitrides
Lithium silicide
Iron(III) compounds
Bromates
Chlorates
Amines
Perchlorates
Hydrogen peroxide
Metal oxides

- **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:**

Oral	ATE	> 2000 mg/kg (.)
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- **LD/LC50 values relevant for classification:**

CAS: 7664-38-2 phosphoric acid

Oral	LD50	1250 mg/kg (Rat) (RTECS)
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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.
- **Serious eye damage/irritation** Causes serious eye damage.

- **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.

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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: 7664-38-2 phosphoric acid

EC50 (static)	> 100 mg/l, 48 h (Daphnia magna) (OECD 202)
EC50 (static)	> 1000 mg/l, 3 h (activated sludge) (OECD 209)
ErC50 (static)	> 100 mg/l, 72 h (Desmodesmus subspicatus) (OECD 201)
NOEC (static)	> 100 mg/l, 72 h (Desmodesmus subspicatus) (OECD 201)

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

Mixture of inorganic substances.

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:

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.

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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 UN3264

· 14.2 UN proper shipping name

· ADR/RID CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
· IMDG, IATA CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid, phosphoric acid)

· 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.

· Hazard identification number (Kemler code): 80
· EMS Number: F-A,S-B

· 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

· Transport/Additional information:

· ADR/RID

· Transport category 2
· Tunnel restriction code E

· UN "Model Regulation": UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. 8, II

· Further information:

The substance / mixture is part of a chemical test kit.
- Dangerous goods classification for N2/25, article 252073:
UN3316, Chemical Kit, 9, II

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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))

CAS: 7664-93-9	sulphuric acid	Limit value: > 15 – ≤ 40 %
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· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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

CAS: 7664-93-9	sulphuric acid	3
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· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

CAS: 7664-93-9	sulphuric acid	3
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15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· Relevant phrases

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Date of previous version: 11.08.2025

· 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

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

Acute Tox. 4: Acute toxicity – Category 4

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

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

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:** **N2/25 (NO3-1K)**
 - **Article number:** 252073 (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:**
Flam. Liq. 3 H226 Flammable liquid and vapour.
Eye Irrit. 2 H319 Causes serious eye 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:**
 
GHS02 GHS07
 - **Signal word:** Warning
 - **Hazard statements:**
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
 - **Precautionary statements:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P242 Use non-sparking tools.

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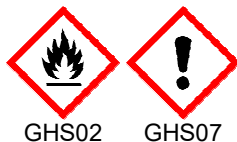
Trade name: N2/25 (NO3-1K)

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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:**



· **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

· **3.2 Mixtures**

· **Dangerous components:**

CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	Propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	≥ 10 - < 20%
CAS: 576-26-1 EINECS: 209-400-1 Index number: 604-006-00-X	2,6-xyleneol Acute Tox. 3, H301; Acute Tox. 3, H311; Skin Corr. 1B, H314; Aquatic Chronic 2, H411	≥ 0.25 - < 1%

· **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:** 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.

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· 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:** 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.

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

Explosive mixtures with air are possible when heated.

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**

Remove container from danger zone, cool with water.

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 empty into drain. Risk of explosion!

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.

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Prevent formation of aerosols.

Wear personal protective equipment (see section 8)

· **Information about fire - and explosion protection:**

Keep away from naked flames, hot surfaces and sources of ignition.

Protect against electrostatic charges.

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

· **Requirements to be met by storerooms and receptacles:** Keep container tightly closed.

· **Information about storage in one common storage facility:** Store away from oxidising agents.

· **Further information about storage conditions:**

Store receptacle in a well ventilated area.

Keep away from sources of heat and ignition.

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:

Butyl rubber

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: 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:** Flame-retardant antistatic protective clothing.

· **Environmental exposure controls**

Do not allow product to reach ground water, water course or sewage system.

Explosion risk.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state	Liquid
· Colour:	Light yellow
· Odour:	Phenol-like
· Melting point/freezing point:	No data available.
· Boiling point or initial boiling point and boiling range	No data available.
· Flammability	Flammable.
· Lower and upper explosion limit	
· Lower:	No data available.
· Upper:	No data available.
· Flash point:	29 °C (DIN 51755 Part 1)
· Decomposition temperature:	No data available.
· pH at 20 °C	5 – 5.5
· Viscosity:	
· Kinematic viscosity	No data available.
· Dynamic viscosity:	No data available.
· Solubility	
· water:	Soluble (20 °C)
· Partition coefficient n-octanol/water (log value)	No data available.
· Vapour pressure at 20 °C:	43 hPa (CAS: 67-63-0 Propan-2-ol)
· Density and/or relative density	
· Density at 20 °C:	0.97 g/cm ³
· Relative gas density	No data available.

· 9.2 Other information

· Change in condition	
· Evaporation rate	No data available.

· Information with regard to physical hazard classes

· Flammable liquids	Flammable liquid and vapour.
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SECTION 10: Stability and reactivity

· **10.1 Reactivity** Vapour/air mixtures are explosive when heated to high temperatures.

· 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:

Alkali metals
Alkaline earth metals
Chromium(VI) oxide

Exothermic reactions with:

Oxidising agent
Nitric acid
Aldehydes
Amines
Strong acids
Iron
Aluminium
Chlorine

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Sodium hydrogen sulphide

Explosion hazard with:

Chlorates

Phosgene

organic nitro compounds

Hydrogen peroxide

Nitrogen oxides

Perchlorates

Violent reactions possible with:

The reaction partners generally known for water.

- **10.4 Conditions to avoid** Heating.
- **10.5 Incompatible materials:** Rubber, various plastics, oils.
- **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** Based on available data, the classification criteria are not met.

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

Oral	ATE	> 2000 mg/kg (.)
Dermal	ATE	> 2000 mg/kg (.)

· LD/LC50 values relevant for classification:

CAS: 67-63-0 Propan-2-ol

Oral	LD50	5840 mg/kg (Rat) (OECD 401)
Dermal	LD50	12800 mg/kg (rabbit) (RTECS)
Inhalative	LC50	37.5 mg/l, 4 h (Rat) (OECD 403)

CAS: 576-26-1 2,6-xylenol

Oral	LD50	296 mg/kg (Rat) (RTECS)
Dermal	LD50	1000 mg/kg (rabbit)

· Primary irritant effect:

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

- **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.

· 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.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 67-63-0 Propan-2-ol

EC50	13299 mg/l, 48 h (Daphnia magna) (IUCLID)
EC5	1050 mg/l, 16 h (Pseudomonas putida) (Lit.)
LC50	9640 mg/l, 96 h (Pimephales promelas) (OECD 203)
IC50	> 1000 mg/l, 72 h (Desmodesmus subspicatus) (IUCLID)

CAS: 576-26-1 2,6-xylenol

EC50	11.2 mg/l, 48 h (Daphnia magna) (IUCLID)
NOEC	0.54 mg/l, 21 d (Daphnia magna) (ECHA)
ErC50	45 mg/l, 72 h (Pseudokirchneriella subcapitata) (OECD 201)
LC50	27 mg/l, 96 h (Pimephales promelas) (OECD 203)

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 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

Additional ecological information:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

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.

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

SECTION 14: Transport information

· 14.1 UN number or ID number	UN1993
· ADR/RID, IMDG, IATA	
· 14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (2-Propanol)
· ADR/RID, IMDG, IATA	
· 14.3 Transport hazard class(es)	
· ADR/RID, IMDG, IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR/RID, IMDG, IATA	III
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Warning: Flammable liquids.
· EMS Number:	F-E, <u>S-E</u>
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR/RID	
· Transport category	3
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (2-PROPANOL), 3, III
· Further information:	The substance / mixture is part of a chemical test kit. - Dangerous goods classification for N2/25, article 252073: 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 P5c FLAMMABLE LIQUIDS · Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t · Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t · 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.

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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**

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

· **Date of previous version:** 18.08.2025

· **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

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

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

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

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

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2