

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:** **A6/25 (NH4+)**
 - **Article number:** 252072 (part 1)
- **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:** The product is not classified, according to the CLP regulation.
- **2.2 Label elements:**
 - **Labelling according to Regulation (EC) No 1272/2008:** Void
 - **Hazard pictograms:** Void
 - **Signal word:** Void
 - **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.

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:** Void

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **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.
Remove contact lenses.
- **After swallowing:**
Make victim drink water immediately (2 glasses at most).
Seek medical advice if you feel unwell.

· 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

Hazardous vapours may be generated by surrounding fire.

· 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.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

No special measurements required when handled properly.

- **For non-emergency personnel**
Do not inhale vapour/aerosol.
Clear danger zone, proceed according to emergency plan.
Call in qualified persons.

· 6.2 Environmental precautions:

No special measures required.

· 6.3 Methods and material for containment and cleaning up:

Observe possible material restrictions (see information in section 7 or section 10).
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **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:** No special requirements.
 - **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**
 - **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:**
 - Use suitable respiratory protective device only when aerosol or mist is formed.
 - Recommended filter type: ABEK
 - **Hand protection**
 - **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
 - **Environmental exposure controls** No special measures required.

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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:	Colourless
· Odour:	Phenol-like
· Melting point/freezing point:	No data available.
· Boiling point or initial boiling point and boiling range	ca. 100 °C (1013 hPa)
· Flammability	Product is not flammable.
· Flash point:	Not applicable.
· Decomposition temperature:	No data available.
· pH at 20 °C	ca. 12.2
· 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:	No data available.
· Density and/or relative density	
· Density at 20 °C:	1.01 g/cm ³
· 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.

· Change in condition

· Softening point/range	
· Oxidising properties	The product is non-oxidising.

· Information with regard to physical hazard classes Void

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

Severe reactions possible with:

The reaction partners generally known for water.

· 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

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

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

· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

· **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.

SECTION 12: Ecological information

· 12.1 Toxicity

· **Aquatic toxicity:**

The substance / mixture is not classified as hazardous to the aquatic environment according to Regulation (EC) No 1272/2008 (CLP).

· **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:**

Avoid transfer into the environment.

Not hazardous for water.

· **Additional ecological information:**

· **General notes:** Not hazardous for water.

· **Additional ecological information:** Not hazardous for water.

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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	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
· 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.
· Transport/Additional information:	Not dangerous according to the above specifications.
· 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** None of the ingredients is listed.

· **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.

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· **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

· **Date of previous version:** 07.08.2025

· **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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

- **1.1 Product identifier**
 - **Trade name:** **A6/25 (NH4-1K)**
 - **Article number:** 252072 (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:**

Acute Tox. 4	H302 Harmful if swallowed.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.
- **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:**

GHS07
 - **Signal word:** Warning
 - **Hazard-determining components of labelling:**
disodium pentacyanonitrosylferrate
troclosene sodium, dihydrate
 - **Hazard statements:**
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

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H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements:**

- P264 Wash hands thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves / 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:**



GHS07

· **Signal word:** Warning

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

disodium pentacyanonitrosylferrate
 troclosene sodium, dihydrate

· **Hazard statements:**

H412 Harmful to aquatic life with long lasting effects.

· **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.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Dangerous components:**

CAS: 14402-89-2 EINECS: 238-373-9	disodium pentacyanonitrosylferrate ⚠ Acute Tox. 3, H301	≥ 10 - < 20%
CAS: 51580-86-0 EINECS: 220-767-7 Index number: 613-030-01-7	troclosene sodium, dihydrate ⚠ Skin Corr. 1A, H314; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=1); ⚠ Aquatic Chronic 1, H410 (M=1); ⚠ Acute Tox. 4, H302; STOT SE 3, H335, EUH031	≥ 1 - < 2.5%

· **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.

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- **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.
- **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
Foam
Carbon dioxide (CO₂)
Fire-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.
In case of fire, the following can be released:
Nitrogen oxides (NO_x)
Hydrogen chloride (HCl)
Hydrogen cyanide (HCN)
Sodium oxides
Iron 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**
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.

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· 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.
Wash off residuals with water.
Dispose of the material collected according to regulations.
Dispose contaminated material as waste according to section 13.

· 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:** No special requirements.
- **Information about storage in one common storage facility:** No special requirements.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in dry 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:**

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.
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

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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.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state	Solid
· Colour:	White
· Odour:	Weak, characteristic
· Melting point/freezing point:	No data available.
· Flammability	Product is not flammable.
· Flash point:	Not applicable.
· Decomposition temperature:	No data available.
· pH	No data available.
· Solubility	
· water:	Soluble (20 °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:	ca. 500 – 600 kg/m ³
· Particle characteristics	No data available.

· 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** The product is non-oxidising.

· Information with regard to physical hazard classes

Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity

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:

Strong oxidising agents

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Acids

- **10.4 Conditions to avoid** No further relevant information available.
- **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	394.98 mg/kg (.)
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· LD/LC50 values relevant for classification:

CAS: 14402-89-2 disodium pentacyanonitrosylferrate

Oral	LD50	69.8 mg/kg (Rat) (RTECS)
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CAS: 51580-86-0 troclosen sodium, dihydrate

Oral	LD50	1823 mg/kg (Rat) (US-EPA)
Dermal	LD50	> 5000 mg/kg (Rat) (US-EPA, ECHA)
Inhalative	LC50	0.27 – 1.17 mg/l, 4 h (Rat) (OECD 403 / dust, fog)

· 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.

· 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: 51580-86-0 troclosen sodium, dihydrate

EC50 (static)	0.17 mg/l, 48 h (Daphnia magna) (ECHA)
EC50	> 4500 mg/l, 3 h (activated sludge) (OECD 209)
EC50, chron. (static)	2600 mg/l, 21 d (Daphnia magna) (OECD 211)
ErC50 (static)	> 100 mg/l, 72 h (Skeletonema costatum) (ECHA)
NOEC (static)	0.13 mg/l, 96 h (Lepomis macrochirus) (ECHA)
NOEC (static)	< 0.13 mg/l, 48 h (Daphnia magna) (ECHA)
NOEC	1000 mg/l, 28 d (Oncorhynchus mykiss) (OECD 215)

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LC50 (static)	0.23 mg/l, 96 h (Lepomis macrochirus) (ECHA)
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- **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 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Do not allow product to reach ground water, water course or sewage system.
 - **Remark:** Harmful to fish
 - **Additional ecological information:**
 - **General notes:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Harmful to aquatic organisms
 - **Additional ecological information:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Harmful to aquatic organisms

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 | Void |
| · 14.2 UN proper shipping name | |
| · ADR/RID, IMDG, IATA | Void |

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· 14.3 Transport hazard class(es)	
· ADR/RID, ADN, IMDG, IATA	
· Class	Void
· 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.
· Transport/Additional information:	Not dangerous according to the above specifications.
· 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 None of the ingredients is listed.

· 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.

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

SECTION 16: Other information

· Relevant phrases

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH031 Contact with acids liberates toxic gas.

· **Date of previous version:** 18.08.2025

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· 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

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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

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

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

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

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

EU