

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: **COD**

· 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.
Acute Tox. 4	H302	Harmful if swallowed.
Acute Tox. 3	H311	Toxic in contact with skin.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Corr. 1	H314	Causes severe skin burns and eye damage.
Eye Dam. 1	H318	Causes serious eye damage.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Muta. 1B	H340	May cause genetic defects.
Carc. 1B	H350	May cause cancer.
Repr. 1B	H360FD	May damage fertility. May damage the unborn child.
STOT RE 2	H373	May cause damage to the kidneys through prolonged or repeated exposure.
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic 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.

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· **Hazard pictograms:**



GHS05

GHS06

GHS08

GHS09

· **Signal word:** Danger

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

sulphuric acid
mercury sulphate
potassium dichromate

· **Hazard statements:**

H290 May be corrosive to metals.
H302+H332 Harmful if swallowed or if inhaled.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H340 May cause genetic defects.
H350 May cause cancer.
H360FD May damage fertility. May damage the unborn child.
H373 May cause damage to the kidneys through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements:**

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
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:**

Restricted to professional users.

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

· **Hazard pictograms:**



GHS05

GHS06

GHS08

GHS09

· **Signal word:** Danger

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

sulphuric acid
mercury sulphate
potassium dichromate

· **Hazard statements:**

H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H340 May cause genetic defects.
H350 May cause cancer.

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H360 May damage fertility or the unborn child.

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.

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: 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 %	≥ 70 - < 90%
CAS: 7783-35-9 EINECS: 231-992-5 Index number: 080-002-00-6	mercury sulphate ⚠ Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; ⚠ STOT RE 2, H373; ⚠ Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1) ATE: LC50 inhalative: 0.05 mg/l, 4 h Specific concentration limit: STOT RE 2; H373: C ≥ 0.1 %	≥ 1 - < 2.5%
CAS: 10294-26-5 EINECS: 233-653-7	Disilver(1+) sulfate ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=1000); Aquatic Chronic 1, H410 (M=100)	≥ 0.25 - 1%
CAS: 7778-50-9 EINECS: 231-906-6 Index number: 024-002-00-6	potassium dichromate ⚠ Ox. Sol. 2, H272; ⚠ Acute Tox. 3, H301; Acute Tox. 2, H330; ⚠ Resp. Sens. 1, H334; Muta. 1B, H340; Carc. 1B, H350; Repr. 1B, H360FD; STOT RE 1, H372; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ⚠ Acute Tox. 4, H312; Skin Sens. 1, H317 Specific concentration limit: STOT SE 3; H335: C ≥ 5 %	≥ 0.3 - < 1%

SVHC

CAS: 7778-50-9 | potassium dichromate

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.

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· **After inhalation:**

Supply fresh air.

Call a doctor immediately.

In the event of respiratory arrest: immediate artificial respiration, oxygen supply if necessary.

· **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)

Mercury vapours

Mercury oxides

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.

· **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.

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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).
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

Work under fume hood. Do not inhale substance/mixture. Avoid development of vapours/aerosols.
Wear personal protective equipment (see section 8)

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).
Store away from metals.
- **Further information about storage conditions:**
Keep or store under lock and key or in such a way that only authorised and reliable persons have access.
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:**

CAS: 7664-93-9 sulphuric acid

IOELV	Long-term value: 0.05 mg/m ³
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CAS: 7783-35-9 mercury sulphate

BOELV	Long-term value: 0.02 mg/m ³ as Hg
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IOELV	Long-term value: 0.02 mg/m ³ as Hg
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CAS: 7778-50-9 potassium dichromate

BOELV	Long-term value: 0.005; 0.01*; 0.025** mg/m ³ as Cr; *until 01/17/2025**processes generating fume
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· **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.
Preventive skin protection according to the skin protection plan.
Wash hands before breaks and at the end of work.

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- **Individual protection measures, such as personal protective equipment**
 - **Respiratory protection:**
Only required when fog or aerosols are generated or when the workplace is not sufficiently ventilated.
 - **Recommended Filter type:** Combination filter ABEK
 - **Hand protection** Protective gloves
 - **Material of gloves**
 - For full contact:
Fluorocarbon rubber (Viton)
Breakthrough time: 480 min
Recommended thickness of the material: ≥ 0.7 mm
 - For splash contact:
Butyl rubber
Recommended material thickness: ≥ 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:	Dark orange colour
· 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.
· Decomposition temperature:	No data available.
· pH at 20 °C	< 0.5
· Viscosity:	
· Kinematic viscosity	No data available.
· Dynamic viscosity:	No data available.
· Solubility	
· water:	Soluble (heat development)
· Partition coefficient n-octanol/water (log value)	No data available.
· Vapour pressure:	No data available.
· Density and/or relative density	
· Density at 20 °C:	ca. 1.8 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.
· Molecular weight	98.07 g/mol

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· Change in condition · Evaporation rate	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** Has a corrosive effect.
- **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
 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.

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· **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 or if inhaled.

Toxic in contact with skin.

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

Oral	ATE	1679 mg/kg (.)
Dermal	ATE	389.31 mg/kg (.)
Inhalative	ATE	2.98 mg/l/4h (dust/fog)

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

CAS: 7664-93-9 sulphuric acid

Oral	LD50	2140 mg/kg (Rat) (ECHA)
Inhalative	LC50	510 mg/m³, 2 h (Rat) (IUCLID)

CAS: 7783-35-9 mercury sulphate

Oral	LD50	25 mg/kg (Rat) (RTECS)
Dermal	LD50	625 mg/kg (Rat) (RTECS)
Inhalative	LC50	0.05 mg/l, 4 h (ATE)

CAS: 7778-50-9 potassium dichromate

Oral	LD50	90.5 mg/kg (Rat) (OECD 401)
Dermal	LD50	1170 mg/kg (Rat) (IUCLID)
Inhalative	LC50	0.083 mg/l, 4 h (Rat) (OECD 403, dust/fog)

CAS: 10294-26-5 Disilver(1+) sulfate

Oral	LD50	> 2000 mg/kg (Rat) (OECD 401)
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· **Primary irritant effect:**

· **Skin corrosion/irritation** Causes severe skin burns.

· **Serious eye damage/irritation**

Causes serious eye damage.

Risk of blindness!

· **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

· **Germ cell mutagenicity** May cause genetic defects.

· **Carcinogenicity** May cause cancer.

· **Reproductive toxicity** May damage fertility. May damage the unborn child.

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

· **STOT-repeated exposure** May cause damage to the kidneys through prolonged or repeated exposure.

· **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**

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: 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)

CAS: 7783-35-9 mercury sulphate

EC50	0.07 mg/l, 14 d (Ankistrodesmus falcatus) (ECHA)
LC50	0.19 mg/l, 96 h (Pimephales promelas) (Hommel)

CAS: 7778-50-9 potassium dichromate

EC50	0.035 mg/l, 48 h (Daphnia magna) (ECHA)
NOEC	1.1 mg/l, 7 d (Pimephales promelas) (ECHA)
NOEC	18 mg/l, 21 d (Daphnia magna) (ECHA)
ErC50	0.233 mg/l, 72 h (Selenastrum capricornutum) (ECHA)
LC50	58.5 mg/l, 96 h (Danio rerio) (ECHA)
IC50	30 mg/l, 3 h (activated sludge) (ECHA)

CAS: 10294-26-5 Disilver(1+) sulfate

EC10	0.00041 mg/l, 24 h (Pseudokirchneriella subcapitata) (ECHA)
EC10	0.00248 mg/l, 7d (Ceriodaphnia dubia) (US-EPA)
NOEC	0.000351 mg/l, 32 d (Pimephales promelas) (ECHA)
LC50	0.0012 mg/l, 96 h (Pimephales promelas) (US-EPA)
LC50	0.00022 mg/l, 48 h (Daphnia magna) (ECHA)

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.

Bioconcentration factor (BCF)

CAS: 7778-50-9 potassium dichromate

BCF	17.4 (Oncorhynchus mykiss) (180 d / 200 µg/l)
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CAS: 10294-26-5 Disilver(1+) sulfate

BCF	70 (Cyprinus carpio) (41 d / 20 °C)
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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 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.

Detrimental effect due to shift of pH value.

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· 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.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

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:

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.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

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, IATA

UN2922

· 14.2 UN proper shipping name

· ADR/RID

CHEMICAL KIT

· IMDG, IATA

CORROSIVE LIQUID, TOXIC, N.O.S. (sulphuric acid, mercury sulphate)

· 14.3 Transport hazard class(es)

· ADR/RID



· Class

8 Corrosive substances.

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· Label	8+6.1
· IMDG	
	
· Class	8 Corrosive substances.
· Label	8/6.1
· IATA	
	
· Class	8 Corrosive substances.
· Label	8 (6.1)
· 14.4 Packing group	
· ADR/RID, IMDG, IATA	II
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: mercury sulphate
· 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 3316 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 E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

CAS: 7778-50-9	potassium dichromate	Sunset date: 2017-09-21
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· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 18, 28, 29, 30, 47, 72

· Regulation (EU) No 649/2012

CAS: 7783-35-9	mercury sulphate	Annex I Part 1 Annex I Part 3 Annex V Part 2
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· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

CAS: 7778-50-9	potassium dichromate
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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))		
CAS: 7664-93-9	sulphuric acid	Limit value: > 15 – ≤ 40 %
· 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
· 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

· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57	
CAS: 7778-50-9	potassium dichromate

· **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.
H300 Fatal if swallowed.
H301 Toxic if swallowed.
H310 Fatal in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H340 May cause genetic defects.
H350 May cause cancer.
H360FD May damage fertility. May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

· **Date of previous version:** 05.08.2025

· 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

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Safety data sheet

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

Printing date 07.10.2025

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Trade name: COD

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LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Ox. Sol. 2: Oxidizing solids – Category 2
Met. Corr. 1: Corrosive to metals – Category 1
Acute Tox. 2: Acute toxicity – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 1: Acute toxicity – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1: Skin corrosion/irritation – Category 1
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
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 1B: Germ cell mutagenicity – Category 1B
Carc. 1B: Carcinogenicity – Category 1B
Repr. 1B: Reproductive toxicity – Category 1B
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
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

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