19.03.2022	Kit Components
Product code	Description
CAY249-VxxAAE	CA72TP-C+D Reagent Set for total phosphate yellow
Components:	
71251096	Reagent TP1, Component 1 for total phosphate
71251123	Reagent TP2 for total phosphate (C+D)

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eople for Process Automation

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Version 6 (replaces version 5)

Revision: 19.03.2022

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

1.1 Product identifier

Printing date 19.03.2022

Trade name: <u>Reagent TP1, Component 1</u> Synonym: for total phosphate

Article number: 71251096

CAS Number: 7775-27-1 **EC number:** 231-892-1

Registration number 01-2119495975-15 UFI: XA50-J0JQ-6002-UKX6

1.2 Relevant identified uses of the substance or mixture and uses advised against Product category *PC21* Laboratory chemicals

Application of the substance / the mixture Laboratory chemicals

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: *Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen*

Further information obtainable from:

Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC @endress.com

1.4 Emergency telephone number: Phone: +49(0)6131-19240

SECTION 2: Hazards identification

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

GHS03 flame over circle

Ox. Sol. 2 H272 May intensify fire; oxidiser.

GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



Acute Tox. 4 H302 Harmful if swallowed. Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements

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

(Contd. on page 2)

Trade name: Reagent TP1, Component 1

Hazard pictograms



Signal word Danger

Hazard-determining components of labelling: sodium persulphate **Hazard statements** H272 May intensify fire: oxidiser. H302 Harmful if swallowed. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. **Precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 Keep away from clothing and other combustible materials. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P284 [In case of inadequate ventilation] wear respiratory protection. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes. **Results of PBT and vPvB assessment** PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances CAS No. Description CAS: 7775-27-1 sodium persulphate Identification number(s) EC number: 231-892-1

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Call for a doctor immediately. **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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Trade name: Reagent TP1, Component 1

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No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: no further information

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters *No further relevant information available.*

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.

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

6.3 Methods and material for containment and cleaning up: *Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.*

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

7.2 Conditions for safe storage, including any incompatibilities

Storage: Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required. Further information about storage conditions: None. Storage class: 5.1 B 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: *Not required.* **Additional information:** *The lists valid during the making were used as basis.*

8.2 Exposure controls Appropriate engineering controls *No further data; see item 7.* Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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Version 6 (replaces version 5)

Trade name: Reagent TP1, Component 1

(Contd. of page 3)

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Hand protection



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labelling of category III. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. No chemical-protective gloves required.

Material of gloves

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. Nitrile rubber, NBR Natural rubber, NR

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties **General Information Physical state** Solid Colour: Colourless Odour: Odourless **Odour threshold:** Not determined. Melting point/freezing point: Undetermined. Boiling point or initial boiling point and boiling range Undetermined. Flammability Product is not flammable. Lower and upper explosion limit Lower: Not determined. Upper: Not determined. Flash point: Not applicable. **Decomposition temperature:** Not determined. Slightly acidic pН Viscosity: **Kinematic viscosity** Not applicable. **Dynamic:** Not applicable. Solubility water: Easily soluble. Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure: Not applicable. Density and/or relative density Density at 20 °C: 1.1 g/cm³ **Relative density** Not determined. Vapour density Not applicable. Particle characteristics See item 3. 9.2 Other information **Appearance:** Form: Crystalline powder

according to 1907/2006/EC, Article 31

Printing date 19.03.2022

Trade name: Reagent TP1, Component 1

Important information on protection of health and environment, and on safety.	(Cond. of page 4)
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Explosive properties.	Not determined.
Solids content:	100.0 %
Change in condition	100.0 //
Evaporation rate	Not applicable.
•	
Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	e
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	May intensify fire; oxidiser.
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid *No further relevant information available.*

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

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

LD/LC50 values relevant for classification:

CAS: 7775-27-1 sodium persulphate

Oral LD50 920 mg/kg (rat)

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

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

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Trade name: Reagent TP1, Component 1

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

Substance is not listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

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

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes:

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

16 05 06* laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals

Uncleaned packaging:

Recommendation: *Disposal must be made according to official regulations.*

SECTION 14: Transport information

14.1 UN number or ID number ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG IATA 14.3 Transport hazard class(es)

UN1505

UN1505 SODIUM PERSULPHATE SODIUM PERSULPHATE Sodium persulphate

ADR



Class

5.1 (O2) Oxidising substances.

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according to 1907/2006/EC, Article 31

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Trade name: Reagent TP1, Component 1

Label	(Contd. of page 6) 5.1
IMDG, IATA	
Class Label 14.4 Packing group ADR, IMDG, IATA	5.1 Oxidising substances. 5.1 III
14.5 Environmental hazards: 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number:	Not applicable. Warning: Oxidising substances. 50 F-A,S-Q
Stowage Category Segregation Code	A SG39 Stow "separated from" SGG2-ammonium compounds other than AMMONIUM PERSULPHATE (UN 1444). SG49 Stow "separated from" SGG6-cyanides
14.7 Maritime transport in bulk according to IM instruments	
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
Transport category Tunnel restriction code	3 E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 1505 SODIUM PERSULPHATE, 5.1, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. Hazard pictograms



Signal word Danger

Hazard-determining components of labelling: sodium persulphate Hazard statements H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. according to 1907/2006/EC, Article 31

Printing date 19.03.2022

Revision: 19.03.2022

Trade name: Reagent TP1, Component 1

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 Keep away from clothing and other combustible materials.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P284 [In case of inadequate ventilation] wear respiratory protection.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed. Seveso category P8 OXIDISING LIQUIDS AND SOLIDS Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

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

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

Substance is not listed.

REGULATION (EU) 2019/1148

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

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

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

Substance is not listed.

National regulations:

Waterhazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water. **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com Date of previous version: 10.09.2021 Version number of previous version: 5 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Ox. Sol. 2: Oxidizing solids - Category 2 Acute Tox. 4: Acute toxicity - Category 4 Resp. Sens. 1: Respiratory sensitisation - Category 1

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.03.2022

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Trade name: Reagent TP1, Component 1

Skin Sens. 1: Skin sensitisation – Category 1 * Data compared to the previous version altered. Revision: 19.03.2022

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— EU —

Endress+Hauser

People for Process Automation Version 6 (replaces version 5)

Revision: 19.03.2022

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

1.1 Product identifier

Trade name: <u>Reagent TP2</u> Synonym: for total phosphate (C+D)

Article number: 71251123 UFI: Y3R0-A0EV-K00H-S8JJ

1.2 Relevant identified uses of the substance or mixture and uses advised against Product category *PC21* Laboratory chemicals

Application of the substance / the mixture Laboratory chemicals

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: *Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen*

Further information obtainable from: Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC@endress.com

1.4 Emergency telephone number: Phone: +49(0)6131-19240

SECTION 2: Hazards identification

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



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**



Signal word Danger

Hazard-determining components of labelling: sulphuric acid Hazard statements H314 Causes severe skin burns and eye damage. **Precautionary statements** P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P321 Specific treatment (see on this label). Store locked up. P405 Dispose of contents/container in accordance with local/regional/national/international P501 regulations.

(Contd. on page 2)

according to 1907/2006/EC, Article 31

Printing date 19.03.2022

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Revision: 19.03.2022

Trade name: Reagent TP2

Additional information:

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

2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

Results of PBT and vPvB assessment PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

ulphuric coid	
ulphuric acid > Skin Corr. 1A, H314 pecific concentration limits: Skin Corr. 1A; H314: C ≥ 15 % Skin Irrit. 2; H315: 5 % ≤ C < 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 %	15-25%
odium metavanadate ▶ Acute Tox. 3, H301;	≤1%
	 Skin Corr. 1A, H314 pecific concentration limits: Skin Corr. 1A; H314: C ≥ 15 % Skin Irrit. 2; H315: 5 % ≤ C < 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 % odium metavanadate Acute Tox. 3, H301; Skin Irrit. 2, H315; Eye Irrit. 2,

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: Immediately remove any clothing soiled by the product.

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately. 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents: no further information 5.2 Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced. 5.3 Advice for firefighters No further relevant information available.

Protective equipment: Mount respiratory protective device.

(Contd. of page 1)

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Trade name: Reagent TP2

(Contd. of page 2)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
6.2 Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
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

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Information about fire - and explosion protection: Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep container tightly sealed. Storage class: 8 B

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 7664-93-9 sulphuric acid

IOELV Long-term value: 0.05 mg/m³

DNELs

CAS: 7664-93-9 sulphuric acid

Inhalative DNEL short-term 0.1 mg/m³ (worker) (local effects)

DNEL long-term 0.05 mg/m³ (worker) (local effects)

PNECs

CAS: 7664-93-9 sulphuric acid

PNEC 8.8 mg/L (Wastewater treatment plant)

0.25 mg/L (sea water)

PNEC 2.5 µg/L (fresh water)

PNEC 2 µg/kg (marine sediment)

2 µg/kg (freshwater sediment)

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

according to 1907/2006/EC, Article 31

Printing date 19.03.2022

Version 6 (replaces version 5)

Trade name: Reagent TP2

8.2 Exposure controls

Appropriate engineering controls *No further data; see item 7.* Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labelling of category III. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Nitrile rubber, NBR

Chloroprene rubber, CR

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection



Tightly sealed goggles

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical p	properties
General Information	
Physical state	Fluid
Colour:	Light yellow
Odour:	Odourless
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	
range	100 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.

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according to 1907/2006/EC, Article 31

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Trade name: Reagent TP2

pH at 20 °C <1 Viscosity: Not determined. Dynamic: Not determined. Solubility Water: Fully miscible. Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure at 20 °C: 23 hPa Density and/or relative density 23 hPa Density at 20 °C: 1.01 g/cm³ Relative density Not determined. Vapour density Not determined. 9.2 Other information Appearance: Form: Fluid Important information on protection of health and environment, and on safety. Auto-ignition temperature: Product is not selfigniting. Explosive properties: Product does not present an explosion hazard. Not determined. Not determined. Solvent content: 0.0 % Change in condition Explosive properties: Explosives Void Explosives Void Classes Void Flammable gases Void Gases under pressure Void Flammable solids Void Gases under pressure <		(Contd. of page 4)
Kinematic viscosityNot determined.Dynamic:Not determined.SolubilityNot determined.water:Fully miscible.Partition coefficient n-octanol/water (log value)Not determined.Vapour pressure at 20 °C:23 hPaDensity and/or relative density1.01 g/cm³Bensity at 20 °C:1.01 g/cm³Relative densityNot determined.Vapour densityNot determined.Vapour densityNot determined.9.2 Other informationFluidAppearance:Form:Form:FluidImportant information on protection of healthand environment, and on safety.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard. Not determined.Solvent content:0.0 %Water:74.7 %Solids content:0.0 %Change in conditionExplosivesExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidPyrophoric liquidsVoidPyrophoric solidsVoid	pH at 20 °C	<1
Dynamic:Not determined.Solubilitywater:Fully miscible.Partition coefficient n-octanol/water (log value)Not determined.Vapour pressure at 20 °C:23 hPaDensity and/or relative density23 hPaDensity at 20 °C:1.01 g/cm³Relative densityNot determined.Vapour densityNot determined.9.2 Other informationFluidAppearance:FluidForm:FluidImportant information on protection of healthand environment, and on safety.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard. Not determined.Solids content:0.0 %Water:74.7 %Solids content:0.0 %Change in conditionExplosivesExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidFlammable liquidsVoidPyrophoric liquidsVoidPyrophoric solidsVoid	Viscosity:	
SolubilityFully miscible.water:Fully miscible.Partition coefficient n-octanol/water (log value)Not determined.Vapour pressure at 20 °C:23 hPaDensity and/or relative density23 hPaDensity at 20 °C:1.01 g/cm³Relative densityNot determined.Vapour densityNot determined.Vapour densityNot determined.9.2 Other informationFuidAppearance:FuidForm:FluidImportant information on protection of healthand environment, and on safety.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard. Not determined.Solvent content:0.0 %Water:74.7 %Solids content:0.0 %Change in conditionExplosivesExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoidFlammable liquidsVoidPirophoric liquidsVoidPyrophoric liquidsVoidPyrophoric solidsVoid	Kinematic viscosity	Not determined.
water:Fully miscible.Partition coefficient n-octanol/water (log value)Not determined.Vapour pressure at 20 °C:23 hPaDensity at 20 °C:1.01 g/cm³Relative densityNot determined.Vapour densityNot determined.Supper densityNot determined.Vapour densityNot determined.9.2 Other informationAppearance:Form:FluidImportant information on protection of healthand environment, and on safety.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard. Not determined.Solvent content:0.0 %Water:74.7 %Solids content:0.0 %ExplosivesVoidExplosivesVoidFlammable gasesVoidAerosolsVoidGases under pressureVoidFlammable liquidsVoidFlammable solidsVoidProphoric solidsVoidPyrophoric liquidsVoidPyrophoric solidsVoid	Dynamic:	Not determined.
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Pyrophoric solids Void		
		Void
Self-neating substances and mixtures Vold	Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	Substances and mixtures, which emit flammable	
gases in contact with water Void	0	
Oxidising liquids Void		
Oxidising solids Void		
Organic peroxides Void		
Corrosive to metals Void		
Desensitised explosives Void	Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions No dangerous reactions known.
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials: No further relevant information available.

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according to 1907/2006/EC, Article 31

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10.6 Hazardous decomposition products: No dangerous decomposition products known.

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.

LD/LC50 values relevant for classification:

CAS: 13718-26-8 sodium metavanadate

Oral LD50 98 mg/kg (rat)

Skin corrosion/irritation Causes severe skin burns and eye damage.

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.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

16 05 06* laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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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 ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG IATA 14.3 Transport hazard class(es)	UN2796 UN2796 SULPHURIC ACID SULPHURIC ACID Sulphuric acid
ADR	
Class	8 (C1) Corrosive substances.
Label IMDG, IATA	8
A A A A A A A A A A A A A A A A A A A	
Class Label	8 Corrosive substances. 8
14.4 Packing group	0
ADR, IMDG, IATA	11
14.5 Environmental hazards: 14.6 Special precautions for user	Not applicable. Warning: Corrosive substances.
Hazard identification number (Kemler code): EMS Number:	80 F-A,S-B
Segregation groups	Strong acids
Stowage Category Segregation Code	B SG36 Stow "separated from" SGG18-alkalis.
ocyrcyation odde	SG49 Stow "separated from" SGG6-cyanides
14.7 Maritime transport in bulk according to IMC instruments	Not applicable.
	погаррисаре.
ADR Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	E
IMDG Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml
UN "Model Regulation":	Maximum net quantity per outer packaging: 500 ml UN 2796 SULPHURIC ACID, 8, II
on model regulation.	UN 2796 SULPHURIC ACID, 8, II (Contd. on page 8

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation. Hazard pictograms



Signal word Danger

Hazard-determining components of labelling:

sulphuric acid

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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

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

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

15-25%

3

3

Limit value: >15-≤40 %

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	ita. ol pago i
16.3 Recommended restriction of use	
Department issuing SDS: PCC-TWR	
Contact: MSDS.pcc@endress.com	
Date of previous version: 05.01.2021	
Version number of previous version: 5	
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations C	oncernina
the International Transport of Dangerous Goods by Rail)	eneering
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)	
ICAO: International Civil Aviation Organisation	
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concern	ing 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)	
DNEL: Derived No-Effect Level (REACH)	
PNEC: Predicted No-Effect Concentration (REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Acute Tox. 3: Acute toxicity – Category 3	
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	
* Data compared to the previous version altered.	
	L0 -