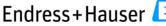
03/19/2022	Kit Components	
Product code	Description	
CAY249-VxxAAE	CA72TP-C+D Reagent Set for total phosphate yellow	
Components:		
71251096	251096Reagent TP1, Component 1 for total phosphate	
71251123	Reagent TP2 for total phosphate (C+D)	

acc. to OSHA HCS

Printing date 03/19/2022





Version 6

Reviewed on 03/19/2022

1 Identification

Product identifier

Trade name: Reagent TP1, Component 1 Synonym: for total phosphate

Article number: 71251096

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

Application of the substance / the mixture Laboratory chemicals

Details of the supplier of the safety data sheet

Manufacturer/Supplier: Endress+Hauser Conducta Inc. 4123 E. La Palma Ave., Suite 200 Anaheim CA 92807-1813 USA

Information department:

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

Emergency telephone number: 001 18000 222 1222

2 Hazard(s) identification

Classification of the substance or mixture

GHS03 Flame over circle

Oxidizing Solids 2 H272 May intensify fire; oxidizer.

GHS08 Health hazard

Sensitization - Respiratory 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

GHS07

Acute Toxicity - Oral 4 Sensitization - Skin 1

H302 Harmful if swallowed. H317 May cause an allergic skin reaction.

Label elements **GHS** label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



Signal word Danger Hazard-determining components of labeling: sodium persulphate



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Trade name: Reagent TP1, Component 1

Hazard statements

May intensify fire; oxidizer. Harmful if swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. **Precautionary statements** Keep away from heat. Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. [In case of inadequate ventilation] wear respiratory protection. Dispose of contents/container in accordance with local/regional/national/international regulations. **Classification system: NFPA ratings (scale 0 - 4)**



The substance possesses oxidizing properties. HMIS-ratings (scale 0 - 4)

HEALTH*1Health = *1FIRE3Fire = 3REACTIVITY 0Reactivity = 0

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.

3 Composition/information on ingredients

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

4 First-aid measures

Description of first aid measures

General information:

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: Immediately call a doctor.

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Trade name: Reagent TP1, Component 1

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Information for doctor: Most important symptoms and effects, both acute and delayed No further relevant information available.

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

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents: no further information

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

Advice for firefighters No further relevant information available.

Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures *Wear protective clothing.* **Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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. Protective Action Criteria for Chemicals

T TOLEOUTE ADUO	in Oriteria for Orienicais
PAC-1:	
0.3 mg/m ³	
PAC-2:	
8.2 mg/m ³	
PAC-3:	
49 mg/m³	

7 Handling and storage

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Information about protection against explosions and fires: No special measures required.

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

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

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Trade name: Reagent TP1, Component 1

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Control parameters

Components with limit values that require monitoring at the workplace:

CAS: 7775-27-1 sodium persulphate

TLV Long-term value: 0.1 mg/m³ as persulfate

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

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Exposure controls 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.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labeling 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information	
Appearance: Form: Color: Odor: Odor threshold:	Crystalline powder Colorless Odorless Not determined.
pH-value:	Slightly acidic
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Decomposition temperature:	Not determined.

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Trade name: Reagent TP1, Component 1

		(Contd. of page 4)
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard. Not determined.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
Vapor pressure:	Not applicable.	
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	1.1 g/cm³ (9.18 lbs/gal) Not determined. Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Easily soluble.	
Partition coefficient (n-octanol/water	: Not determined.	
Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	
Solids content:	100.0 %	
Other information	No further relevant information available.	

10 Stability and reactivity

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

11 Toxicological information

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: CAS: 7775-27-1 sodium persulphate Oral LD50 920 mg/kg (rat)

Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: Sensitization possible through inhalation. Sensitization possible through skin contact.

12 Ecological information

Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Behavior in environmental systems: Bioaccumulative potential No further relevant information available. acc. to OSHA HCS

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Trade name: Reagent TP1, Component 1

Mobility in soil No further relevant information available.
Additional ecological information:
General notes:
Water hazard class 1 (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.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number DOT, IMDG, IATA UN proper shipping name	UN1505
DOT, IMDG IATA	SODIUM PERSULPHATE Sodium persulphate
Transport hazard class(es)	
DOT	
ONDER 51	
Class	5.1 Oxidizing substances
Label	5.1
IMDG, IATA	
Class	5.1 Oxidizing substances
Label	5.1
Packing group	
DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Oxidizing substances
Hazard identification number (Kemler code)	
EMS Number:	F-A,S-Q
Stowage Category	A SC20 Story "concreted from" SCC2 oppositum
Segregation Code	SG39 Stow "separated from" SGG2-ammonium compounds other than AMMONIUM PERSULPHATE (UN 1444). SG40 Stow "separated from" SGG6 evanides
Transport in bulk according to Annex II of	SG49 Stow "separated from" SGG6-cyanides
MARPOL73/78 and the IBC Code	Not applicable.
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Trade name: Reagent TP1, Component 1

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Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg
IMDG Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g
UN "Model Regulation":	Maximum net quantity per outer packaging: 1000 g UN 1505 SODIUM PERSULPHATE, 5.1, III

15 Regulatory information

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

Section 355 (extremely hazardous substances):
Substance is not listed.
Section 313 (Specific toxic chemical listings):
Substance is not listed.
TSCA (Toxic Substances Control Act):
ACTIVE
Hazardous Air Pollutants
Substance is not listed.
Proposition 65
Chemicals known to cause cancer:
Substance is not listed.
Chemicals known to cause reproductive toxicity for females:
Substance is not listed.
Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not listed.

Cancerogenity categories

EPA (Environmental Protection Agency)

Substance is not listed.

TLV (Threshold Limit Value)

Substance is not listed.

MAK (German Maximum Workplace Concentration)

Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS). **Hazard pictograms**



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Trade name: Reagent TP1, Component 1

Signal word Danger

Hazard-determining components of labeling: sodium persulphate
Hazard statements
May intensify fire; oxidizer.
Harmful if swallowed.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Precautionary statements
Keep away from heat.
Keep/Store away from clothing/combustible materials.
Take any precaution to avoid mixing with combustibles.
[In case of inadequate ventilation] wear respiratory protection.
Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

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

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.

Department issuing SDS: PCC - TWR Contact: MSDS.pcc@endress.com Date of preparation / last revision 03/19/2022 / 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 DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Oxidizing Solids 2: Oxidizing solids - Category 2 Acute Toxicity - Oral 4: Acute toxicity - Category 4 Sensitization - Respiratory 1: Respiratory sensitisation - Category 1 Sensitization - Skin 1: Skin sensitisation - Category 1 * Data compared to the previous version altered.

USA -

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Version 6

People for Process Automation

Reviewed on 03/19/2022

1 Identification

Product identifier

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

Article number: 71251123

Application of the substance / the mixture Laboratory chemicals

Details of the supplier of the safety data sheet Manufacturer/Supplier: Endress+Hauser Conducta Inc. 4123 E. La Palma Ave., Suite 200 Anaheim CA 92807-1813 USA

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

Emergency telephone number: 001 18000 222 1222

2 Hazard(s) identification

Classification of the substance or mixture



GHS05 Corrosion

Skin Corrosion 1A H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.

Label elements GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



Signal word Danger

Hazard-determining components of labeling: sulphuric acid Hazard statements Causes severe skin burns and eye damage. Precautionary statements If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4)



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Trade name: Reagent TP2

HMIS-ratings (scale 0 - 4)

HEALTH 3 Health = 3FIRE Fire = 00 Reactivity = 0REACTIVITY 0

Other hazards

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

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Results of PBT and vPvB assessment PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous comp	ponents:	
CAS: 7664-93-9		15-25%
	Skin Corrosion 1A, H314	
CAS: 13718-26-8	sodium metavanadate	<i>≤</i> 1%
	Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331; Acute Toxicity - Inhalation 3, H331; Acute Skin Irrititation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	
مسمؤمنا المسما الالداد ا	estima. For the wording of the listed beyond abrease refer to easting 10	

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

4 First-aid measures

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 copious amounts of water and provide fresh air. Immediately call a doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

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

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

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

Advice for firefighters No further relevant information available. Protective equipment: Mount respiratory protective device.

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Trade name: Reagent TP2

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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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.

Protective Action Criteria for Chemicals

PAC-1:		
CAS: 7664-93-9	sulphuric acid	0.20 mg/m³
CAS: 13718-26-8	sodium metavanadate	0.011 mg/m³
PAC-2:		
CAS: 7664-93-9	sulphuric acid	8.7 mg/m³
CAS: 13718-26-8	sodium metavanadate	0.12 mg/m³
PAC-3:		
CAS: 7664-93-9	sulphuric acid	160 mg/m³
CAS: 13718-26-8	sodium metavanadate	84 mg/m ³

7 Handling and storage

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 protection against explosions and fires:

Keep respiratory protective device available.

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 receptacle tightly sealed.* Storage class: *8 B* Specific end use(s) *No further relevant information available.*

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

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Trade name: Reagent TP2

CAS: 7664-93-9 sulphuric acid

PEL Long-term value: 1 mg/m³

REL Long-term value: 1 mg/m³

TLV Long-term value: 0.2* mg/m³ *as thoracic fraction, A2

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

Exposure controls 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.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labeling 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information Appearance: Form: Color: Odor: Odor threshold:

Fluid Light yellow Odorless Not determined.

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Trade name: Reagent TP2

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pH-value at 20 °C (68 °F):	<1	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard. Not determined.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	1.01 g/cm³ (8.428 lbs/gal) Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
Solvent content: Water:	74.7 %	
Solids content:	0.0 %	
Other information	No further relevant information available.	

10 Stability and reactivity

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

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

CAS: 13718-26-8 sodium metavanadate

Oral LD50 98 mg/kg (rat)

Primary irritant effect:

on the skin: Strong caustic effect on skin and mucous membranes.

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on the eye: Strong caustic effect. Strong irritant with the danger of severe eye injury. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive Irritant

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Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (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 bodies of water or drainage ditch undiluted or unneutralized.

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. Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG IATA Transport hazard class(es)

UN2796

SULPHURIC ACID Sulphuric acid

DOT



Class

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Trade name: Reagent TP2

Label	(Contd. of page 6)
IMDG, IATA	0
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	
EMS Number:	F-A,S-B
Segregation groups	Strong acids
Stowage Category	B
Segregation Code	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
Transport in bulk according to Annex II of	SG49 Slow Separated from SGG0-cyanides
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
IMDG	
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
UN "Model Regulation":	UN 2796 SULPHURIC ACID, 8, II

*15 Regulatory information

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

Section 355 (ext	remely hazardous substances):	
CAS: 7664-93-9	sulphuric acid	
Section 313 (Spe	ecific toxic chemical listings):	
CAS: 7664-93-9	sulphuric acid	
CAS: 13718-26-8	sodium metavanadate	
TSCA (Toxic Sul	ostances Control Act):	
CAS: 7732-18-5	water	ACTIV
CAS: 7664-93-9	sulphuric acid	ACTIV
CAS: 13718-26-8	sodium metavanadate	ACTIV
Hazardous Air P	ollutants	
None of the ingre	dients is listed.	
Proposition 65		
Chemicals know	in to cause cancer:	
None of the ingre	dients is listed.	
Chemicals know	n to cause reproductive toxicity for females:	
None of the ingre	dients is listed.	
		(Contd on page

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A2

4

Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value)

CAS: 7664-93-9 sulphuric acid

MAK (German Maximum Workplace Concentration)

CAS: 7664-93-9 sulphuric acid

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



Signal word Danger

Hazard-determining components of labeling: sulphuric acid Hazard statements

Causes severe skin burns and eye damage.

Precautionary statements

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor. Specific treatment (see on this label).

Store locked up.

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

National regulations:

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

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.

Department issuing SDS: PCC - TWR Contact: MSDS.pcc@endress.com

Date of preparation / last revision 03/19/2022 / 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

Version 6

acc. to OSHA HCS

Printing date 03/19/2022

Trade name: Reagent TP2

DOT: US Department of Transportation IATA: International Air Transport Association 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Oral 3: Acute toxicity – Category 3 Skin Corrosion 1A: Skin corrosion/irritation – Category 1A Skin Irrititation 2: Skin corrosion/irritation – Category 2 Eye Damage 1: Serious eye damage/eye irritation - Category 1 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 * Data compared to the previous version altered.

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Reviewed on 03/19/2022

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