



TECPO

Rostumwandler flüssig_EN

Version number: 1.0

Issued: 2026-09-16

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

1.1. Product identifier

Trade name

TECPO Rostumwandler flüssig_EN

Article No.

300160

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Corrosion inhibitor

Not suitable for use in

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Supplier

TECPO GmbH

Address

Dreherstraße 16-20

42899 Remscheid

Germany

Telephone

+49 2191 951 3305

Email

info@tecpo.de

Fax

+49 2191 951 33044

Web site

www.tecpo.de

Contact person

Baris Ünsal

1.4. Emergency telephone number

Poison center/Additional emergency number

+49 (0) 89 19240 (Available 24/7) - Poison Emergency Call Munich (Available for the public.)



TECPO

Rostumwandler flüssig_EN

Version number: 1.0

Issued: 2026-09-16

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Hazardous to the aquatic environment — Chronic hazard category 3

Hazard statements

H412

Description

The product is classified and labeled according to the CLP regulation.

2.2. Label elements

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P273 Avoid release to the environment.

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

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

The product does not contain any substances with endocrine-disrupting properties.



TECPO

Rostumwandler flüssig_EN

Version number: 1.0

Issued: 2026-09-16

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrases M factor acute M factor chronic	Specific concentration limits ATE	Note
trizinc bis(orthophosphate)	7779-90-0 231-944-3 01-2119485044-40 030-011-00-6	≥0,25 - <2,5%	Aquatic Acute 1, Aquatic Chronic 1	H400, H410 - -		-
2-butoxyethanol	111-76-2 203-905-0 01-2119475108-36 603-014-00-0	0 - <2,5%	Acute Tox. 4 - oral, Skin Irrit. 2, Eye Irrit. 2, Acute Tox. 3 - inhalation	H302, H315, H319, H331 - -		ATE: LD50 oral: 1200 mg/kg LC50/4 h inhalative: 3 mg/l
zinc oxide	1314-13-2 215-222-5 01-2119463881-32 030-013-00-7	≥0,025 - <0,25%	Aquatic Acute 1, Aquatic Chronic 1	H400, H410 M-acute=1 M-chro=1		-
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, zinc salt	24468-28-8 246-279-4 - -	0 - <0,25%	Aquatic Acute 1, Aquatic Chronic 2	H400, H411 - -		-

Product based on

Mixture of the substances listed below with additives not subject to labeling.

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If symptoms occur or in case of doubt, seek medical advice. Never give anything by mouth to an unconscious person.

Inhalation

Supply fresh air, consult a doctor in case of complaints.



TECPO

Rostumwandler flüssig_EN

Version number: 1.0

Issued: 2026-09-16

Skin contact

Wash off immediately with soap and water and rinse thoroughly.

Eye contact

Rinse opened eye for several minutes under running water. If symptoms persist consult a doctor if symptoms persist.

Ingestion

Consult a doctor if symptoms persist.

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 media

Adapt fire extinguishing measures to the surroundings.

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

No special measures required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not required.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

If the product enters the sewage system/surface water/groundwater, inform the responsible authority.

Dilute with plenty of water. Do not allow to enter drains/surface water/ground water.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, saw-dust). Dispose of contaminated material as waste according to section 13.



TECPO

Rostumwandler flüssig_EN

Version number: 1.0
Issued: 2026-09-16

6.4. Reference to other sections

See SECTIONS 7+8+13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Use only in well-ventilated areas.

Notes on fire and explosion protection:

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers:

No special requirements.

Storage instructions:

Store separately from foodstuffs, luxury foods and animal feed.

Further information on storage conditions:

None.

Storage class according to TRGS 510: 12 - Non-flammable liquids

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

Additional information: The lists valid at the time of preparation were used as a basis.

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Source	Remark	Year
trizinc bis(orthophosphate)	7779-90-0 231-944-3	- / 0,1	MAK	alveolar-dependent	-



TECPO

Rostumwandler flüssig_EN

Version number: 1.0

Issued: 2026-09-16

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Source	Remark	Year
trizinc bis(orthophosphate)	7779-90-0 231-944-3	- / 2	MAK	breathable	-
2-butoxyethanol	111-76-2 203-905-0	10 / 49	TRGS 900	2(l); EU, DFG; H, Y	-

Biological limit values

Product/Sub- stance name CAS No.	Parameter	Limit value	Test material	Sampling time	Source	Remark	Date
2-butoxyethanol 111-76-2	Butoxyacetic acid (after hydrolysis in creatinine)	150 mg/g creatinine	Urine	for long-term exposure: at the end of the shift after sev- eral previous shifts	TRGS 903		

8.2. Exposure controls

Appropriate engineering controls

Ensure good ventilation/extraction at the workplace. If this is not sufficient to keep aerosol and solvent vapor concentrations below the air exposure limit, an approved respirator must be worn.

Personal Protective Equipment Symbols



Eye / face protection

Safety goggles are recommended when decanting.



TECPO

Rostumwandler flüssig_EN

Version number: 1.0

Issued: 2026-09-16

Hand protection

Due to the lack of tests, no recommendation can be given for the glove material for the product / the preparation / the chemical mixture. Selection of the glove material taking into account the breakthrough times, permeation rates and degradation. The glove material must be impermeable and resistant to the product / substance / preparation.

Glove material:

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

Penetration time of the glove material:

The exact breakthrough time must be obtained from the protective glove manufacturer and adhered to.

Respiratory protection

Not required.

Environmental exposure controls

General protective and hygiene measures:

Wash hands before breaks and at the end of work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

According to product description

Odour

Characteristic.

Odour threshold

Not determined.

Melting point / freezing point

Not determined.

Boiling point or initial boiling point and boiling range

100 °C



TECPO

Rostumwandler flüssig_EN

Version number: 1.0

Issued: 2026-09-16

Flammability

Not applicable.

Lower and upper explosion limit

Not determined.

Flash point

Not applicable.

Auto-ignition temperature

Not determined.

Decomposition temperature

Not determined.

pH

Not determined.

Kinematic viscosity

25 - 27 mm²/s

Viscosity, dynamic

Not determined.

Solubility

No data available

Water solubility

Fully miscible

Partition coefficient n-octanol/water

Not determined.

Vapour pressure

23 hPa

Method

@ 20 °C (100-42-5 water)

Density and/or relative density

1,371 g/cm³

Method

DIN 53217

Relative density

Not determined.

Relative vapour density

Not determined.



TECPO

Rostumwandler flüssig_EN

Version number: 1.0
Issued: 2026-09-16

Evaporation Rate

Not determined.

Explosive properties

Not applicable.

Oxidising properties

Not applicable.

VOC %

1,07 %

Particle characteristics

No data available

Information on basic physical and chemical properties

The product is not self-igniting.

The product is not potentially explosive.

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

No decomposition when used as intended.

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

Carbon monoxide (CO).



TECPO

Rostumwandler flüssig_EN

Version number: 1.0

Issued: 2026-09-16

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.

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.



TECPO

Rostumwandler flüssig_EN

Version number: 1.0

Issued: 2026-09-16

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

Mobility

No further relevant information available.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

12.7. Other adverse effects

Harmful to fish.

Other

Do not allow undiluted product or large quantities of it to enter groundwater, watercourses or drains. into the sewage system. Harmful to aquatic life.

German Water Class

WGK1 - slightly water endangering

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

The mentioned waste codes are recommendations based on the expected use of the product. Must not be disposed of together with household waste. Do not allow to enter drains.

Packaging

The packaging must be disposed of in accordance with the Packaging Act. Contaminated packaging must be disposed of in the same way as the substance.

Waste code	Waste description
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.



TECPO

Rostumwandler flüssig_EN

Version number: 1.0

Issued: 2026-09-16

SECTION 14: Transport information

14.1. UN number

No dangerous goods in the sense of these transport regulations.

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

No dangerous goods in the sense of these transport regulations.

14.3. Transport hazard class(es)

Label

No dangerous goods in the sense of these transport regulations.

ADR / RID Class

No dangerous goods in the sense of these transport regulations.

ADR / RID Classification code

No dangerous goods in the sense of these transport regulations.

ADR / RID hazard identification number

No dangerous goods in the sense of these transport regulations.

IMDG Class

No dangerous goods in the sense of these transport regulations.

14.4. Packing group

No dangerous goods in the sense of these transport regulations.

14.5. Environmental hazards

No.

IMDG Marine Pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.



TECPO

Rostumwandler flüssig_EN

Version number: 1.0

Issued: 2026-09-16

SECTION 15: Regulatory information

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

EU regulations

Directive 2012/18/EU - Named dangerous substances - ANNEX I

None of the ingredients are included.

Annex XVII (REACH): The product is subject to the following restrictions according to Annex XVII,
Regulation (EC) 1907/2006 (REACH): 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 are included.

National regulations

Technical guidance on air:

Class: NK / Percentage: 2.5–<10%

Water hazard classification : 1 - slightly water endangering

Storage class according to TRGS 510: 12 - Non-flammable liquids

Substances of Very High Concern (SVHC) according to REACH, Article 57:

None of the ingredients are included.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.



TECPO

Rostumwandler flüssig_EN

Version number: 1.0

Issued: 2026-09-16

SECTION 16: Other information

Abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW - Occupational Exposure Limit (Arbeitsplatzgrenzwert)
ATE - Acute Toxicity Estimate
AwSV - Ordinance on Installations for Handling Substances Hazardous to Water
C&L - Einstufung und Kennzeichnung
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSR - Chemical Safety Report
DNEL - Derived No Effect Level
ECHA - European Chemicals Agency
GefStoffV - Hazardous Substances Ordinance (Gefahrstoffverordnung)
GHS - Globally Harmonized System
IMDG - International Maritime Dangerous Goods
International Air Transport Association
IUCLID - International Uniform Chemical Information Database
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LGK - Storage Class (Lagerklasse)
OEL - Occupational Exposure Lim
PBT - Persistent, Bioaccumulative and Toxic substance
PNEC - Predicted No Effect Concentration(s)
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
SCBA - Self-Contained Breathing Apparatus
STOT - Specific Target Organ Toxicity
SVHC - Substances of Very High Concern
TRGS - Technische Regeln für Gefahrstoffe
UFI - Unique Formula Identifier
vPvB - Very Persistent and Very Bioaccumulative
WGK - Water Hazard Class (Wassergefährdungsklasse)



TECPO

Rostumwandler flüssig_EN

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Phrase meaning

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3
Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1
Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Skin Irrit. 2 - Skin irritation, hazard category 2
Eye Irrit. 2 - Eye irritation, hazard category 2
Acute Tox. 3 - inhalation - Acute toxicity, inhalation, hazard category 3
Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Other

Additional information

The information is based on our current state of knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. The recipient of our products is responsible for observing existing laws and regulations. The information in this safety data sheet corresponds to the best of our knowledge at the time of printing. The information is intended to provide you with guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. If the product is mixed, blended or processed with other materials processed or subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.

Manufacturer's notes

The data of the relevant components were taken from the latest safety data sheet of the upstream supplier.