

CALC FREE

WM 0712688

Order number: 0712688

Version 6.1

Revision Date 21.01.2026

Print Date 11.03.2026

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

1.1 Product identifier

Trade name : CALC FREE
UPI : MQT4-10EU-1000-QRPA

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

Use of the Substance/Mixture : Cleaning agent
Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : Tana Chemie GmbH
Rheinallee 96
55120 Mainz
Telephone : +49613196403
Telefax : +4961319642526
E-mail address : Produktsicherheit@werner-mertz.com
Responsible/issuing person
Contact person : Product development / product safety

1.4 Emergency telephone

EU: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to Metals, Category 1 H290: May be corrosive to metals.

Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary Statements : P102 Keep out of reach of children.
Prevention:
P260 Do not breathe spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

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

P310

Disposal:

P501

Dispose of container into the collection of recyclables only when it is completely empty.

Hazardous ingredients which must be listed on the label:

Phosphoric acid

Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous solution

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Phosphoric acid	7664-38-2 231-633-2 015-011-00-6 01-2119485924-24	Skin Corr. 1B; H314 Met. Corr. 1; H290 Acute Tox. 4; H302 Eye Dam. 1; H318 specific concentration limit Skin Corr. 1B; H314 ≥ 25 % Skin Irrit. 2; H315 10 - < 25 % Eye Irrit. 2; H319 10 - < 25 %	≥ 30 - < 50

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nitriлотrimethylenetris(phosphonic acid)	6419-19-8 229-146-5 01-2119487988-08	Eye Irrit. 2; H319 Met. Corr. 1; H290	>= 1 - < 3
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SECTION 4: First aid measures

4.1 Description of first-aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Protect unharmed eye.
Continue rinsing eyes during transport to hospital.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : corrosive effects
- Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known

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5.3 Advice for firefighters

- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Neutralize with chalk, alkali solution or ammonia.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container.
- Further information on storage : No decomposition if stored and applied as directed.

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stability

7.3 Specific end use(s)

Specific use(s) : Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
orthophosphoric acid, orthophosphoric acid (Solution)	Not Assigned	TWA	1 mg/m ³	2000/39/EC
Further information: Indicative				
		STEL	2 mg/m ³	2000/39/EC
Further information: Indicative				

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
orthophosphoric acid, orthophosphoric acid (Solution)	Workers	Inhalation	Long-term local effects	1 mg/m ³
	Consumers	Inhalation	Long-term local effects	0,36 mg/m ³
	Workers	Inhalation	Acute local effects	2 mg/m ³
	Workers	Inhalation	Long-term systemic effects	10,7 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	4,57 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	0,1 mg/kg
nitrilotrimethylenetris(phosphonic acid)	Workers	Skin contact	Acute systemic effects	2,75 mg/kg bw/day
	Workers	Inhalation	Acute systemic effects	9,7 mg/m ³
	Workers	Skin contact	Long-term systemic	2,75 mg/kg

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			effects	bw/day
	Workers	Inhalation	Long-term systemic effects	9,7 mg/m ³
	Consumers	Skin contact	Acute systemic effects	1,38 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	2,39 mg/m ³
	Consumers	Ingestion	Acute systemic effects	1,38 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	1,38 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,39 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	1,38 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
nitrilotrimethylenetris(phosphonic acid)	Fresh water	0,46 mg/l
	Sea water	0,046 mg/l
	Fresh water sediment	150 mg/kg
	Sea sediment	15 mg/kg
	Soil	244 mg/kg
	STP	20 mg/l
	Oral	170 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

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- Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Remove and wash contaminated clothing before re-use.
- Respiratory protection : Not required; except in case of aerosol formation.
Recommended Filter type:
ABEK-P3-filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Color : colorless
- Odor : characteristic
- Melting point/freezing point : No data available
- Boiling point/boiling range : No information available.
- Flammability (solid, gas) : No data available
- Flammability (liquids) : No data available
- Lower explosion limit : No data available
- Upper explosion limit : No data available
- Flash point : does not flash
- Ignition temperature : No data available
- Decomposition temperature : No data available
- pH : ca. 1,7, 1 %
at 20 °C
- Viscosity, dynamic : No data available
- Viscosity, kinematic : No data available
- Water solubility : soluble
- Solubility in other solvents : No data available
- Partition coefficient: n- : No data available

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octanol/water
Vapor pressure : No data available
Density : ca. 1,192 g/cm³ at 20 °C

Relative density : No data available
Relative vapor density : No data available
Particle characteristics : No data available

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Our company is strongly against animal testing.
Our company does not place any orders for animal testing for the finished product or the ingredients.
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

Acute toxicity

Acute toxicity : Not Rated

Components:

Phosphoric acid

7664-38-2:

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Acute oral toxicity : LD50 Oral (Rat): 2.600 mg/kg
LD50 Oral (Rat): 1.250 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,21 mg/l
Exposure time: 4 h

LC50 (Rat): 850 mg/l
Exposure time: 2 h

Acute dermal toxicity : LD50 (Rabbit): 2.740 mg/kg

nitrilotrimethylenetrakis(phosphonic acid)

6419-19-8:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

LD50 Oral (Rat): 2.100 mg/kg

LD50 (Rat, male and female): 2.910 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 6.310 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks : Extremely corrosive and destructive to tissue.

Components:

Phosphoric acid

7664-38-2:

Species : Rabbit
Exposure time : 24 h
Result : Corrosive

nitrilotrimethylenetrakis(phosphonic acid)

6419-19-8:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Product:

Remarks : May cause irreversible eye damage.

Components:

Phosphoric acid

7664-38-2:

Species : Rabbit
Result : Corrosive

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nitrilotrimethylenetris(phosphonic acid)

6419-19-8:

Species : Rabbit
Assessment : Irritating to eyes.
Method : OECD Test Guideline 405

Respiratory or skin sensitization

Product:

Remarks : No data available

Components:

nitrilotrimethylenetris(phosphonic acid)

6419-19-8:

Test Type : Maximization Test
Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Germ cell mutagenicity : Not Rated

Components:

nitrilotrimethylenetris(phosphonic acid)

6419-19-8:

Germ cell mutagenicity-
Assessment : In vivo tests did not show mutagenic effects

Carcinogenicity

Carcinogenicity : Not Rated

Components:

nitrilotrimethylenetris(phosphonic acid)

6419-19-8:

Carcinogenicity - Assessment : Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

Reproductive toxicity : Not Rated

STOT-single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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Repeated dose toxicity

Components:

Phosphoric acid

7664-38-2:

Species : Rat
NOAEL : 250 mg/kg
Application Route : Oral
Method : OECD 422

nitrilotrimethylenetris(phosphonic acid)

6419-19-8:

Species : Rat
NOAEL : > 500 mg/kg
Exposure time : 24 Months

Species : Rat
NOAEL : > 1.000 mg/kg
Exposure time : 34 Days

Species : Rat
NOAEL : > 6.000 mg/kg
Exposure time : 90 Days

Species : Rat, male and female
NOAEL : > 500 mg/kg
Method : OECD Test Guideline 453

Aspiration toxicity : Not Rated

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

orthophosphoric acid, orthophosphoric acid (Solution)

7664-38-2:

Toxicity to fish : LC0 (Gambusia affinis (Mosquito fish)): 138 mg/l
Exposure time: 96 h

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- LC50 (Lepomis macrochirus (Bluegill sunfish)): 3 - 3,25 mg/l
Exposure time: 96 h
- LC50 (Lepomis macrochirus (Bluegill sunfish)): 98 - 106 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 100 - 1.000 mg/l
Exposure time: 96 h
- EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
- NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 (activated sludge): 270 mg/l
- EC50 (activated sludge): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

nitrotrimethylenetris(phosphonic acid)

6419-19-8:

- Toxicity to fish : LC50 (Salmo trutta (brown trout)): 160 mg/l
Exposure time: 14 d
- LC50 (Oncorhynchus mykiss (rainbow trout)): 160 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 297 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
- EC50 (Daphnia): 94 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (algae): > 100 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOEC: 23 mg/l
Exposure time: 60 d
Species: Oncorhynchus mykiss (rainbow trout)
Method: OECD Test Guideline 210
- Toxicity to daphnia and other : NOEC: > 25 mg/l

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aquatic invertebrates (Chronic toxicity)

Exposure time: 28 d
Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Components:

orthophosphoric acid, orthophosphoric acid (Solution)

7664-38-2:

Biodegradability : Result: Biodegradable
Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

nitrilotrimethylenetris(phosphonic acid)

6419-19-8:

Biodegradability : Inoculum: Sea water
Concentration: 4,08 mg/l
Biodegradation: 23 %
Exposure time: 28 d
Method: OECD 301 D

Inoculum: Sea water
Concentration: 11,97 mg/l
Biodegradation: 22 %
Exposure time: 28 d
Method: OECD 301 D

Inoculum: Sea water
Biodegradation: 2 %
Exposure time: 28 d
Method: OECD Test Guideline 306

Inoculum: Sea water
Concentration: 8 mg/l
Biodegradation: 21,7 %
Exposure time: 28 d
Method: OECD Test Guideline 306

Inoculum: Sea water
Concentration: 10 mg/l
Biodegradation: 2,6 %
Exposure time: 28 d
Method: OECD Test Guideline 306

Inoculum: Sea water
Concentration: 1 mg/l
Biodegradation: 41 %
Exposure time: 28 d
Method: OECD Test Guideline 306

Inoculum: Sea water
Concentration: 2,5 mg/l
Biodegradation: 22 %
Exposure time: 28 d

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Method: OECD Test Guideline 306

Biodegradation: 13,5 %
Exposure time: 30 d
Method: OECD 301 D

Biodegradation: 23 %
Exposure time: 28 d
Method: OECD 302 B

Biodegradation: 90 %
Method: OECD Test Guideline 302A

Biodegradation: 20 %
Method: OECD 301 E

Concentration: 1 mg/l
Result: Not rapidly biodegradable
Biodegradation: 22 %
Related to: Chemical oxygen demand
Exposure time: 28 d

12.3 Bioaccumulative potential

Components:

orthophosphoric acid, orthophosphoric acid (Solution)

7664-38-2:

Partition coefficient: n-
octanol/water : log Pow: -0,77

nitrotrimethylenetris(phosphonic acid)

6419-19-8:

Partition coefficient: n-
octanol/water : log Pow: -3,53

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

orthophosphoric acid, orthophosphoric acid (Solution)

7664-38-2:

Assessment : Not very persistent and very bioaccumulative (vPvB).. Not persistent, bioaccumulative, and toxic (PBT).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or

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Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

Waste Code : European Waste Catalog
20 01 29*
According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : 1805
IMDG : 1805
IATA : 1805

14.2 UN proper shipping name

ADR : PHOSPHORIC ACID SOLUTION
IMDG : PHOSPHORIC ACID SOLUTION
IATA : Phosphoric acid, solution

14.3 Transport hazard class(es)

ADR : 8
IMDG : 8
IATA : 8

14.4 Packing group

ADR
Classification Code : C1
Packaging group : III
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

IMDG
Packaging group : III
Labels : 8
EmS Number : F-A, S-B

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(Cargo) : Phosphoric acid, solution
Packaging group : III
Labels : 8

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

: Directive 96/82/EC does not apply

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

TA Luft List (Germany) : Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable
: Inorganic substances in vapor or gaseous form: Not applicable
: Organic Substances: : portionClass 1: < 0,01 %
: Carcinogenic substances: : portionClass 3: < 0,01 %
: mutagenic: Not applicable
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)
Update: Percent volatile: < 0,01 %
0,01 g/l
0 %
VOC content excluding water

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Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)
Update: Percent volatile: < 0,01 %
0 g/l
0 %
VOC content valid only for coating materials used on wood surfaces

according to Detergents Regulation EC 648/2004 : <5% phosphonates, non-ionic surfactants

15.2 Chemical Safety Assessment

There is no data available for this product.

SECTION 16: Other information

Full text of H-Statements

H290 : May be corrosive to metals.
H302 : Harmful if swallowed.
H314 : Causes severe skin burns and eye damage.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Met. Corr. : Corrosive to Metals
Skin Corr. : Skin corrosion
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2000/39/EC / TWA : Limit Value - eight hours
2000/39/EC / STEL : Short term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



CALC FREE

WM 0712688

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Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Met. Corr. 1	H290
Skin Corr. 1A	H314

Classification procedure:

On basis of test data.
On basis of test data.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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