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

### 1.1 Product identifier

**Trade name/designation** elma clean 300 (EC 300)

**Unique Formula Identifier** UFI: SP20-V05D-F00R-A87V

**Product category** PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)

**Hazard components**
tripotassium orthophosphate

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

**Sector of uses [SU]**
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses

**Product Categories [PC]**
PC35 Washing and cleaning products

**Use of the substance/mixture**
Alkaline cleaning concentrate.

### 1.3 Details of the supplier of the safety data sheet

**Supplier**
Elma Schmidbauer GmbH
Gottlieb-Daimler-Str. 17
D-78224 Singen (Htwl.)
Telephone +49 7731 882-0
Telefax +49 7731 882-266
E-mail info@elma-ultrasonic.com
Website www.elma-ultrasonic.com

Department responsible for information:
Chemie/Labor: Email: chemlab@elma-ultrasonic.com

### 1.4 Emergency telephone number

Vergiftungs-Informations-Zentrale Freiburg (Sprache/Language: DE, EN) +49 761 19240

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

| Classification according to Regulation (EC) No 1272/2008 [CLP] | Classification procedure |
|---|---|
| Met. Corr. 1, H290 | Expert judgement and weight of evidence determination. |
| Skin Corr. 1B, H314 | On basis of test data. |
| Eye Dam. 1, H318 | Calculation method. |

**Hazard statements for physical hazards**
H290 May be corrosive to metals.

**Hazard statements for health hazards**
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP]**

**Hazard components**
tripotassium orthophosphate

**Hazard pictograms**



GHS05

**Signal word**
Danger

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

**Precautionary statements**
P405 Store locked up.
P102 Keep out of reach of children.
P234 Keep only in original packaging.
P261 Avoid breathing mist/spray.
P280 Wear protective gloves/eye protection.
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 doctor.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

**Other labelling**
Labelling for contents according to regulation (EC) No. 648/2004:
< 5% anionic surfactants
< 5% non-ionic surfactants
15 - 30% phosphates
< 5% phosphonates

### 2.3 Other hazards

**Adverse human health effects and symptoms**
Inhalation of spray may cause respiratory irritation.
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Adverse environmental effects**
Aquatic Acute 3 H402: Harmful to aquatic life.
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

* **Results of PBT and vPvB assessment**
The product does not contain any PBT-/vPvB-substances according to the recipe.
The product does not contain any PMT-/vPvM-substances according to the recipe.

## SECTION 3: Composition / information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

**Hazardous ingredients**

| CAS No | EC No | Index No | Substance name | Concentration | Classification according to Regulation (EC) No 1272/2008 [CLP] | SCL/ M/ ATE |
|---|---|---|---|---|---|---|
| 7778-53-2 | 231-907-1 | | tripotassium orthophosphate | 15 - 30 weight-% | Met. Corr. 1; H290<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>STOT SE 3; H335 | |

| REACH No. | Substance name |
|---|---|
| 01-2119971078-30 | tripotassium orthophosphate |

**Additional information**
Aqueous mildly alkaline mixture from anionic and nonionic tensides, complexing agents and phosphates.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information**
Remove contaminated, saturated clothing immediately.

**Following inhalation**
Provide fresh air.
In case of inhaling spray mist, consult a physician.
In the event of symptoms refer for medical treatment.

**Following skin contact**
In case of contact with skin wash off immediately with plenty of water.
In case of skin irritation, consult a physician.

**After eye contact**
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**Following ingestion**
Do NOT induce vomiting.
If swallowed seek medical advice immediately and show the doctor packing or label.
Rinse mouth immediately and drink plenty of water.
Medical treatment necessary.

### 4.2 Most important symptoms and effects, both acute and delayed

**Symptoms**
No further informations available.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes for the doctor**
No further informations available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**
Water

### 5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products**
In case of fire formation of dangerous gases possible.
In the event of fire the following can be released:
Corrosive gases/vapours
Nitrogen oxides (NOx)
Carbon monoxide
Phosphorus oxides

### 5.3 Advice for firefighters

**Special protective equipment for firefighters**
Do not inhale explosion and combustion gases.

**Additional information**
Co-ordinate fire-fighting measures to the fire surroundings.
The product itself does not burn.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**
Use personal protection equipment.
Special danger of slipping by leaking/spilling product.

**For emergency responders**
Personal protection equipment
Use personal protection.
Use breathing apparatus if exposed to vapours/dust/aerosol.
Forms slippery surfaces with water.
Special danger of slipping by leaking/spilling product.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

**For containment**
Suitable material for taking up:
Kieselguhr
Flush away residues with water.
Take up mechanically and send for disposal.

### 6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8

## * SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Protective measures**
Handle and open container with care.
Do not inhale aerosols
Avoid contact with eyes and skin.
The product is not combustible.

**Advices on general occupational hygiene**
Make available sufficient washing facilities
Keep away from food and drink.

### * 7.2 Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**
Keep/Store only in original container.
Keep container tightly closed.

**Materials to avoid**
Do not store together with:
Acid

**Further information on storage conditions**
Keep locked up and out of reach of children.
Protect from heat and direct solar radiation.
Do not store at temperature above 25°C (=77°F).
Do not keep at temperatures below 5°C.
Storage time: 3 years.

### 7.3 Specific end use(s)

**Recommendation**
Do not use the product itself for injecting or spraying. Use only the diluted application solution for splash cleaning.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**DNEL worker**

| CAS No | Substance name | DNEL value | DNEL type | Remark |
|---|---|---|---|---|
| 7778-53-2 | tripotassium orthophosphate | 23.09 mg/m³ | long-term inhalative (systemic) | Assessment factor 50 |

### 8.2 Exposure controls

**Appropriate engineering controls**

**Technical measures to prevent exposure**
Splash cleaning only in enclosed systems.

**Personal protection equipment**

**Eye/face protection**
tightly fitting goggles

**Hand protection**
Gloves (alkali-resistant)
Glove material specification [make/type, thickness]: FKM, 0.4mm.
Glove material specification [make/type, thickness]: NBR, 0.35mm.
Glove material specification [make/type, thickness]: Butyl, 0.5mm.

**Environmental exposure controls**

**Technical measures to prevent exposure**
Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.
Avoid penetration into the subsoil/soil.
Do not discharge into surface waters.

**Additional information**
Occupational exposure limits: No relevant informations available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Physical state**
liquid

**Colour**
light yellow

**Odour**
mild

**Safety relevant basis data**

| | Value | Method | Source, Remark |
|---|---|---|---|
| Odour threshold: | | | not determined |
| Melting point/freezing point | solidifying range<br>< -5 °C | | |
| Boiling point or initial boiling point and boiling range | > 100 °C | | |
| flammability | solid | | not relevant |

| | Value | Method | Source, Remark |
|---|---|---|---|
| flammability | gaseous | | not relevant |
| Lower and upper explosion limit | Upper explosion limit | | not relevant |
| Lower and upper explosion limit | Lower explosion limit | | not relevant |
| Flash point | | | No flash point up to 100 °C. |
| Auto-ignition temperature | > 300 °C | | Value of complexing agents. |
| Decomposition temperature | > 100 °C | | |
| pH | in delivery state<br>11.8 (20°C)<br>Concentration 10 g/L | | |
| Viscosity | | | not determined |
| Solubility(ies) | Water solubility | | miscible |
| Partition coefficient n-octanol/water (log value) | | | No relevant informations available. |
| Partition coefficient n-octanol/water (log value) | | | CAS No7778-53-2 tripotassium orthophosphate<br><br>Product/Substance is inorganic. |
| Vapour pressure | approx. 23 hPa (20°C) | | |
| Density and/or relative density | 1.42 g/cm³ (20°C) | | |
| Relative vapour density | 0.62 | | Value of Water. |
| particle characteristics | | | not applicable (liquid). |

**9.2 Other information**

**Information with regard to physical hazard classes**

**Explosives**

**Assessment/classification**
The mixture does not contain any explosive substances (CLP I 2.1.4.3 a).
CLP I 2.1.4.3 a: The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with explosive properties.

**flammable gases**

**Assessment/classification**
not applicable (liquid).

**Aerosols**

**Assessment/classification**
not relevant - no aerosol.
The classification criteria for this hazard class are not met by definition.

**Oxidising gas**

**Assessment/classification**
not applicable (liquid).

**Gases under pressure**

**Assessment/classification**
not applicable (liquid - no dissolved gas).

**flammable liquids**

**Assessment/classification**
not flammable, not combustible (No flash point below 100°C).

**flammable solids**

**Assessment/classification**
not applicable (liquid).

**Self-reactive substances and mixtures**

**Assessment/classification**
The mixture does not contain any self-reactive substances (CLP I 2.8.4.2 a).
CLP I 2.8.4.2 a: There are no chemical groups present in the molecule associated with explosive or self reactive properties.

**Pyrophoric liquids**

**Assessment/classification**
The mixture does not contain any pyrophoric substances - not spontaneously flammable (CLP I 2.9.4.1).
CLP I 2.9.4.1: The classification procedure for pyrophoric liquids need not be applied when experience in manufacture or handling shows that the substance or mixture does not ignite spontaneously on coming into contact with air at normal temperatures (i.e. the substance is known to be stable at room temperature for prolonged periods of time (days)).

**Pyrophoric solids**

**Assessment/classification**
not applicable (liquid).

**self-heating substances and mixtures**

**Assessment/classification**
The mixture does not contain any self-heating substances.

**Substances or mixtures which, in contact with water, emit flammable gases**

**Assessment/classification**
not relevant - in contact with water releases no flammable gases (CLP I 2.12.4.1).
CLP I 2.12.4.1: The classification procedure for this class need not be applied if: (a) the chemical structure of the substance or mixture does not contain metals or metalloids; or (b) experience in production or handling shows that the substance or mixture does not react with water, e.g. the substance is manufactured with water or washed with water; or (c) the substance or mixture is known to be soluble in water to form a stable mixture.

**Oxidising liquids**

**Assessment/classification**
The mixture does not contain any oxidising substances.

**Oxidising solids**

**Assessment/classification**
not applicable (liquid).

**Organic peroxides**

**Assessment/classification**
The mixture does not contain any organic peroxides.

**Corrosive to metals**

**Safety characteristics**

| | Value | Method, Result | Source, Remark |
|---|---|---|---|
| Corrosion rate (mm aluminium/year) | > 6.25 mm/a | Expert judgement and weight of evidence determination. | |
| Corrosion rate (mm steel/year) | | | not available |

**Assessment/classification**
The mixture is classified as corrosive to metals (Met. Corr. 1 H290).

**Desensitised explosives**

**Assessment/classification**
The mixture does not contain any desensitised explosive substances.

**Other safety characteristics**

| | Value | Method | Source, Remark |
|---|---|---|---|
| Evaporation rate | | | Water: 0.36 (ASTM D3539). |
| Solvent content | 0 % | | |
| Explosive properties | | | none |
| Oxidising properties | | | none |

**Other information**
No further relevant informations available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Exothermic reaction with:
Acid
No further hazardous reactions known if used as directed.

### 10.2 Chemical stability

Stable at ambient temperature.

### 10.3 Possibility of hazardous reactions

Reactions with acids.
Reactions with oxidising agents.
Reactions with light metals, with evolution of hydrogen.

### 10.4 Conditions to avoid

Heat and direct solar radiation.

### 10.5 Incompatible materials

Reactions with strong acids.
Oxidising agent
Corrodes aluminium.

### 10.6 Hazardous decomposition products

No decomposition if used as directed.

## SECTION 11: Toxicological information

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

**Acute toxicity**

**Animal data**

| | Effective dose | Method,Evaluation | Source, Remark |
|---|---|---|---|
| Acute oral toxicity | > 5000 mg/kg | ATE: Acute Toxicity Estimate | |
| Acute dermal toxicity | > 5000 mg/kg | ATE: Acute Toxicity Estimate | |
| Acute inhalation toxicity | Acute inhalation toxicity (vapour) | | not relevant |
| | Acute inhalation toxicity (dust/mist)<br>> 12.5 mg/L | ATE: Acute Toxicity Estimate | |

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

**Skin corrosion/irritation**

**Animal data**

| Result / Evaluation | Method | Source, Remark |
|---|---|---|
| corrosive | On basis of test data. | |

**Serious eye damage/irritation**

**Animal data**

| Result / Evaluation | Method | Source, Remark |
|---|---|---|
| Risk of serious damage to eyes. | Calculation method. | |

**Sensitisation to the respiratory tract**

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

**Skin sensitisation**

**Animal data**

| Result / Evaluation | Dose / Concentration | Method | Source, Remark |
|---|---|---|---|
| The mixture is not classified as skin sensitiser. | | Calculation method. | |

**Germ cell mutagenicity**

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

**Carcinogenicity**

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

**Reproductive toxicity**

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

**Overall Assessment on CMR properties**

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.

**STOT-single exposure**

**STOT SE 1 and 2**

**Assessment/classification**
The mixture is not classified as specific target organ toxicant (single exposure).
Based on available data, the classification criteria are not met.

**STOT SE 3**

**Irritation to respiratory tract**

**Other information**
Inhalation of spray may cause respiratory irritation.

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

**Narcotic effects**

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

**STOT-repeated exposure**

**Assessment/classification**
The mixture is not classified as specific target organ toxicant (repeated exposure).
Based on available data, the classification criteria are not met.

**Aspiration hazard**

**Assessment/classification**
The mixture is not classified as aspiration hazardous.
Based on available data, the classification criteria are not met.

### 11.2 Information on other hazards

**Information on other hazards**

| | Effective dose | Method,Evaluation | Source, Remark |
|---|---|---|---|
| Endocrine disrupting properties | | | This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria. |

**Other information**

OECD 431: skin corrosive category 1B.
Has degreasing effect on the skin.

## * SECTION 12: Ecological information

### 12.1 Toxicity

**Aquatic toxicity**

| | Effective dose | Method,Evaluation | Source, Remark |
|---|---|---|---|
| Acute (short-term) fish toxicity | LC50: >10- 100 mg/L | calculated. | |
| Chronic (long-term) fish toxicity | not determined | | |
| Acute (short-term) toxicity to crustacea | EC50 >10- 100 mg/L | calculated. | |
| Chronic (long-term) toxicity to aquatic invertebrate | not determined | | |
| Acute (short-term) toxicity to algae and cyanobacteria | EC50 >10- 100 mg/L | calculated. | |
| Chronic (long-term) toxicity to aquatic algae and cyanobacteria | not determined | | |
| Toxicity to other aquatic plants/organisms | not determined | | |
| Toxicity to microorganisms | not determined | | |

**Assessment/classification**
Harmful to aquatic life.

### 12.2 Persistence and degradability

| | Value | Method | Source, Remark |
|---|---|---|---|
| Biodegradation | Degradation rate > 80 % | OECD 302B/ ISO 9888/ EEC 92/69/V, C.9 | Readily biodegradable (according to OECD criteria). |
| Biodegradation | Degradation rate 100 % | Neutralization, pH-measurement | Alkaline properties can be eliminated up to 100% by neutralization. |

| | Value | Method | Source, Remark |
|---|---|---|---|
| Biodegradation | | | CAS No7778-53-2 tripotassium orthophosphate<br><br>Inorganic product which is not eliminable from water through biological cleaning processes. |

### 12.3 Bioaccumulative potential

**Assessment/classification**
tripotassium orthophosphate: not available.

### 12.4 Mobility in soil

**Assessment/classification**
tripotassium orthophosphate: not available.

### * 12.5 Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.
The product does not contain any PMT-/vPvM-substances according to the recipe.

### 12.6 Endocrine disrupting properties

| | Effective dose | Method,Evaluation | Source, Remark |
|---|---|---|---|
| Endocrine disrupting properties | | | This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria. |

### 12.7 Other adverse effects

| | Value | Method | Source, Remark |
|---|---|---|---|
| Ozone depletion potential (ODP): | | | Based on available data, the classification criteria are not met. |

**Additional ecotoxicological information**

| | Value | Method | Source, Remark |
|---|---|---|---|
| Chemical oyxgen demand (COD) | 125 mg/g | calculated. | |
| AOX | | | The product does not contain any organically bound halogens according to the recipe. |

**Additional information**
The surfactants in our product meet the criteria for biodegradation as laid down in Annex III of the Regulation (EC) No 648/2004 on detergents.
Acute aquatic environmental hazards: Aquatic Acute 3 H402: Harmful to aquatic life.
The mixture is not classified as chronic hazardous to the aquatic environment.
Do not allow uncontrolled discharge of product into the environment.
No further relevant informations available.

## * SECTION 13: Disposal considerations

### * 13.1 Waste treatment methods

**Waste codes/waste designations according to EWC/AVV**

| Waste code product | Waste name |
|---|---|
| 200129 * | detergents containing hazardous substances |

| Waste code packaging | Waste name |
|---|---|
| 150110 * | packaging containing residues of or contaminated by hazardous substances |

* **Appropriate disposal / Product**
Do not dispose with household waste. Do not discharge into the drains.
Dispose of waste according to applicable legislation.

**Appropriate disposal / Package**
Non-contaminated packages may be recycled.
Handle contaminated packages in the same way as the substance itself.

* **Other disposal recommendations**
Application solution / cleaning solution :
Suitable for neutralization are acetic acid (60%, liquid) or citric acid (solid powder, crystallized) if a stainless steel bath is used.
Product is allowed to discharge into sewage treatment plants, but in accordance with official regulations.

## SECTION 14: Transport information

| | Land transport (ADR/RID) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---|---|---|---|
| **14.1 UN number or ID number** | UN 1719 | UN 1719 | UN 1719 |
| **14.2 UN proper shipping name** | CAUSTIC ALKALI LIQUID, N.O.S. (tripotassium orthophosphate) | CAUSTIC ALKALI LIQUID, N.O.S. (tripotassium orthophosphate) | Caustic alkali liquid, n.o.s. (tripotassium orthophosphate) |
| **14.3 Transport hazard class(es)** | 8 | 8 | 8 |
| **14.4 Packing group** | II | II | II |
| **14.5 Environmental hazards** | - | - | - |

**14.6 Special precautions for user**

none

**14.7 Maritime transport in bulk according to IMO instruments**

not relevant

**Land transport (ADR/RID)**

| | |
|---|---|
| UN number or ID number | UN 1719 |
| UN proper shipping name | CAUSTIC ALKALI LIQUID, N.O.S. (tripotassium orthophosphate) |
| Transport hazard class(es) | 8 |
| Hazard label(s) | 8 |
| Classification code | C5 |
| Packing group | II |
| Environmental hazards | - |
| Limited quantity (LQ) | 1 L |
| Special provisions | 274 |
| Tunnel restriction code | E |

**Sea transport (IMDG)**

| | |
|---|---|
| UN number or ID number | 1719 |
| UN proper shipping name | CAUSTIC ALKALI LIQUID, N.O.S. (tripotassium orthophosphate) |
| Transport hazard class(es) | 8 |
| Packing group | II |
| Environmental hazards | - |
| Limited quantity (LQ) | 1 L |
| Marine pollutant | - |
| EMS | F-A, S-B |
| Special provisions | 274 |

**Air transport (ICAO-TI / IATA-DGR)**

| | |
|---|---|
| UN number or ID number | UN 1719 |
| UN proper shipping name | Caustic alkali liquid, n.o.s. (tripotassium orthophosphate) |
| Transport hazard class(es) | 8 |
| Packing group | II |
| Environmental hazards | - |
| Special provisions | A3, A803 |

## SECTION 15: Regulatory information

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

#### EU legislation

**Authorisations**
not relevant

**Restrictions on use**
Regulation (EC) No 1907/2006 (REACH), Annex XVII No 3 - not relevant if used as directed.
Regulation (EC) No 1907/2006 (REACH), Annex XVII No 75 - not relevant if used as directed.

**Restrictions of occupation**
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

#### Other regulations (EU)

**To follow:**
Regulation (EC) No. 648/2004 (Detergents regulation)
Directive 2012/18/EU, Annex I: not mentioned.

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC**
VOC content, delivery state 0 %

### 15.2 Chemical Safety Assessment

#### National regulations

For this mixture a chemical safety assessment were not carried out.

## SECTION 16: Other information

**Abbreviations and acronyms**
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ASTM: American Society for Testing and Materials
ATE: Acute Toxicity Estimate
AVV: Waste Shipment Ordinance (DE)
DGR: Dangerous Goods Regulations (IATA)
DNEL: derived no-effect level
DOC: Dissolved Organic Carbon
EmS: emergency procedures
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
IMO: International Maritime Organization
JArbSchG: Youth Labor Protection Act (DE)
OECD: Organisation for Economic Cooperation and Development
PBT: persistent and bioaccumulative and toxic
RID: Dangerous goods regulations for transport by rail
TI: Technical Instruction
TRGS: Technical Rules for Hazardous Substances
VOC: Volatile organic compounds
vPvB: very persistent, very bioaccumulative
Met. Corr. 1: Corrosive to metals, Category 1
Skin Corr. 1B: Skin corrosion, Sub-category 1B
Skin Irrit. 2: Skin irritation, Category 2
Eye Dam. 1: Serious eye damage, Category 1
STOT SE 3, H335: Specific target organ toxicity (single exposure), Category 3

**Key literature references and sources for data**
Own measurements.
European Chemicals Agency, http://echa.europa.eu/.
Informations from our suppliers.

**Additional information**
National and local regulations concerning chemicals shall be observed.
These data are given according to our actual knowledge about this product.This data sheet does not correspond to an assurance by virtue of a contract for properties of the product.

**Relevant H- and EUH-phrases (Number and full text)**

| | |
|---|---|
| H290 | May be corrosive to metals. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |

**Indication of changes**
* Data changed compared with the previous version