

\* **Polisher**

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# 31001702227

Version: 14 / DE

Master No. M-035

Print date: 20.02.2023

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

### **1.1. Product identifier**

**Trade name**

Polisher

**Registration no.**

EC No.:	231-633-2
REACH-Registration no.	01-2119485924-24-XXXX
CAS No.	7664-38-2
Index no.	015-011-00-6

**UFI**

UFI: 493C-S0MG-400W-D66T

**Use of the substance/mixture**

Intermediate, Laboratory chemicals, Descaling compound/ Scale solvent, Corrosion inhibitors, pH-corrective agent, Processing aid, Degreasing agent, Metal surface treatment, Industrial use

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

**Address**

Reuter GmbH & Co.KG  
Schimmelbuschstraße 9e  
DE 40699 Erkrath  
Telephone no. +49 211 730604 30

E-mail address mail@reuter.works

### **1.4. Emergency telephone number**

+49 171 5450200

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

**Classification (Regulation (EC) No. 1272/2008)**

Met. Corr. 1	H290
Acute Tox. 4	H302
Skin Corr. 1B	H314

### **2.2. Label elements**

**Labelling according to regulation (EC) No 1272/2008****Hazard pictograms****Signal word**

Danger

**Hazard statements**

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

**Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

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P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Further supplemental information**

Restricted to professional users

**2.3. Other hazards**

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous ingredients (Regulation (EC) No. 1272/2008)****Phosphoric acid**

CAS No.	7664-38-2
EINECS no.	231-633-2
Registration no.	01-2119485924-24-XXXX
Concentration	appr. 75 %
Met. Corr. 1	H290
Acute Tox. 4	H302
Skin Corr. 1B	H314

**Concentration limits (Regulation (EC) No. 1272/2008)**

	Skin Corr. 1B	H314	>= 25
	Eye Irrit. 2	H319	>= 10 < 25
	Skin Irrit. 2	H315	>= 10 < 25
cATpE	oral	500	mg/kg

Complete text of H-phrases in Chapter 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove affected person from danger area, lay him down. Remove contaminated, soaked clothing immediately and dispose of safely. Irregular breathing/no breathing: artificial respiration. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After inhalation**

Remove the casualty into fresh air and keep him calm. Summon a doctor immediately.

**After skin contact**

Wash immediately with plenty of water for several minutes. Summon a doctor immediately.

**After eye contact**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

Causes burns.

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**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / treatment**

Keep under medical supervision for at least 48 hours.

**Hints for the physician / hazards**

Risk of pneumonia; Risk of stomach perforation

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Water spray jet, Dry powder, Foam, Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

**Non suitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**Reactions with metals, with evolution of hydrogen. In the event of fire the following can be released: Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>); Phosphorus trihydride (phosphine)**5.3. Advice for firefighters**

Use self-contained breathing apparatus. Wear full protective suit.

Cool endangered containers with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. High risk of slipping due to leakage/spillage of product.

**6.2. Environmental precautions**

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. Prevent spread over a wide area (e.g. by containment or oil barriers).

**6.3. Methods and material for containment and cleaning up**

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Neutralization agent use. When picked up, treat material as prescribed under Section 13 "Disposal".

**6.4. Reference to other sections**

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Keep container tightly closed. Handle and open container with care. Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). When diluting, always stir product into water.

**Advice on protection against fire and explosion**

No special measures required.

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

Provide acid-resistant floor. Keep only in original packaging.

Do not store together with: Alkalies, Reducing agents, Metals

Storage class according to TRGS 510

8B

Non-combustible corrosive hazardous substances

Keep container tightly closed and in a well-ventilated place. Protect from heat/overheating.

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**7.3. Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limit values****phosphoric acid ... %**

List	TRGS 900
Type	AGW
Long term exposure limit	2 mg/m <sup>3</sup>
Maximum limit value: 2(l)	
Pregnancy group: Y	
Remarks: DFG, EU, AGS	

**phosphoric acid ... %**

List	IOELV
Type	IOELV
Long term exposure limit	1 mg/m <sup>3</sup>
Short term exposure limit	2 mg/m <sup>3</sup>

**Derived No/Minimal Effect Levels (DNEL/DMEL)****Phosphoric acid**

DNEL				
Conditions	Worker	Long term	inhalative	Local effects
Concentration	1	mg/m <sup>3</sup>		
DNEL				
Conditions	General Population	Long term	inhalative	Local effects
Concentration	0,36	mg/m <sup>3</sup>		
DNEL				
Conditions	Worker	Acute	inhalative	Local effects
Concentration	2	mg/m <sup>3</sup>		
DNEL				
Conditions	Worker	Long term	inhalative	Systemic effects
Concentration	10,7	mg/l		
DNEL				
Conditions	General Population	Long term	oral	Systemic effects
Concentration	0,1	mg/kg		
DNEL				
Conditions	General Population	Long term	inhalative	Systemic effects
Concentration	4,57			

**8.2. Exposure controls****General protective and hygiene measures**

Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Keep separated from food-stuffs and feed-stocks. At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols.

**Respiratory protection**

Breathing apparatus in the event of aerosol or mist formation. In case of brief exposure or low pollution

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use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Short term: filter apparatus, combination filter E-P2; Short term: filter apparatus, combination filter B-P2

**Hand protection**

Appropriate Material	Chloroprene		
Material thickness	>= 0,6	mm	
Breakthrough time	>= 480	min	

**Eye protection**

Tightly fitting safety glasses

**Body protection**

Acid-resistant protective clothing

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

Physical state	liquid
Colour	colourless
Odour	odourless

**Melting point/freezing point**

Value	appr. -18	°C
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**Initial boiling point and boiling range**

Value	appr. 135	°C
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**Flammability (solid, gas)**

Not ignitable

**Upper/lower flammability or explosive limits**

Remarks	Not applicable
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**Flash point**

Remarks	Not applicable
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**Auto-ignition temperature**

Remarks	Not applicable
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**Decomposition temperature**

Remarks	No data available
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**pH value**

Value	< 1		
Concentration/H <sub>2</sub> O	23	g/l	
Temperature	20	°C	

**Viscosity**

Remarks	No data available
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**Solubility(ies)**

Medium	Water
Remarks	Completely miscible

**Partition coefficient: n-octanol/water**

Remarks	Not applicable
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**Vapour pressure**

Value	0,04	hPa
Temperature	20	°C

**Density**

Value	1,58	g/cm <sup>3</sup>
Temperature	20	°C

**Vapour density**

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Value

3,4

**9.2. Other information****Odour threshold**

Remarks

No data available

**Evaporation rate**

Remarks

No data available

**Explosive properties**

Remarks

This product is not potentially explosive.

**Oxidising properties**

evaluation

not oxidizing

**SECTION 10: Stability and reactivity****10.1. Reactivity**

see Possibility of hazardous reactions

**10.2. Chemical stability**

No decomposition if used as prescribed.

**10.3. Possibility of hazardous reactions**

Corrosive to metals. Reactions with reducing agents. Reactions with alkalis. Reactions with metals, with evolution of hydrogen.

**10.4. Conditions to avoid**

To avoid thermal decomposition do not overheat. Protect from light.

**10.5. Incompatible materials**

Reducing agents, metals, Alkalis

**10.6. Hazardous decomposition products**Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>), Hydrogen**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity (Components)****Phosphoric acid**

Species

rat

LD50

≥ 300

2000

mg/kg

Method

OECD 423

Species

rat

NOAEL

250

mg/kg

**Acute dermal toxicity (Components)****Phosphoric acid**

Species

rabbit

LD50

2740

mg/kg

**Acute inhalative toxicity (Components)****Phosphoric acid**

No information available.

**Skin corrosion/irritation**

evaluation

corrosive

Corrosive action on the skin and mucous membrane.

**Serious eye damage/irritation**

evaluation

strongly corrosive

**Sensitization (Components)**

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**Phosphoric acid**

not investigated - substance is corrosive

**Mutagenicity (Components)****Phosphoric acid**

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

**Reproduction toxicity (Components)****Phosphoric acid**

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

**Carcinogenicity (Components)****Phosphoric acid**

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

**Specific Target Organ Toxicity (STOT)****Single exposure**

May cause respiratory irritation.

**Repeated exposure**

No data available

**Aspiration hazard**

No information available.

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**Experience in practice**

Strong caustic effect in the mouth and throat and danger of perforation of the esophagus and stomach.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity (Components)****Phosphoric acid**

Species	Gambusia affinis		
LC50	138		mg/l
Duration of exposure	96	h	

**Daphnia toxicity (Components)****Phosphoric acid**

Species	Daphnia magna		
EC50	> 100		mg/l
Duration of exposure	48	h	

Method OECD 202

Remarks Static system

Species	Daphnia magna		
NOEC	56		mg/l
Duration of exposure	48	h	

Method OECD 202

**Algae toxicity (Components)****Phosphoric acid**

Species	Desmodesmus subspicatus		
EC50	> 100		mg/l
Duration of exposure	72	h	

Method OECD 201

Remarks Static system

Species *Desmodesmus subspicatus*

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NOEC	100		mg/l
Duration of exposure	72	h	
Method	OECD 201		

**Bacteria toxicity (Components)****Phosphoric acid**

Species	activated sludge		
EC50	270		mg/l

**12.2. Persistence and degradability****Biodegradability (Components)****Phosphoric acid**

Inorganic product, cannot be eliminated from the water by biological purification processes.

**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water**

Remarks Not applicable

**12.4. Mobility in soil**

Will not adsorb on soil.

**12.5. Results of PBT and vPvB assessment****General information**

No valuation for anorganic substances necessary.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects****Behaviour in environment compartments**

Harmful effect due to pH shift. Can contribute to eutrophication of waters.

**Behaviour in sewers [waste treatment plants]**

The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Do not allow to enter drains or water courses.

**Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

**SECTION 14: Transport information**



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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	1805	1805	1805
14.2. UN proper shipping name	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	III	III	III
Label			
14.5. Environmental hazards	-	-	-
Limited Quantity	5 l	5 l	
Transport category	3		
Tunnel restriction code	E		
Hazard id. no.	80		
EmS		F-A, S-B	

**Information for all modes of transport****14.6. Special precautions for user**

No information available.

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

No data available

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**Water Hazard Class WGK 1  
(Germany)

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

**VOC-Content according to directive 2010/75/EU**

VOC (EU) 0 %

**Classification according to Betriebssicherheitsverordnung (BetrSichV)**

not applicable

**Other information**

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

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**Registration status****Phosphoric acid**

AICS (Australian Inventory of Chemical Substances)	listed
DSL (Canada)	listed
IECSC (China)	listed
EINECS	listed
ENCS (Japan)	listed
ECL (Korea)	listed
PICCS (Philippines)	listed
TSCA (USA)	listed
POPs	not listed

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

**SECTION 16: Other information****Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Met. Corr. 1	H290	On basis of test data
Acute Tox. 4	H302	Calculation method
Skin Corr. 1B	H314	Calculation method

**Hazard statements listed in Chapter 2/3**

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

**CLP categories listed in Chapter 2/3**

Acute Tox. 4	Acute toxicity, Category 4
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion, Category 1B

**Abbreviations**

AC: Article Category  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 ADNR: Accord européen relatif au transport international des marchandises dangereuses par navigation sur le Rhin  
 ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route  
 AGW: Arbeitsplatzgrenzwert  
 AICS: Australian Inventory of Chemical Substances  
 AOX: adsorbable organically bound halogens  
 ARW: Arbeitsplatzrichtwert (Germany)  
 ASTM: American Society for Testing And Materials  
 ATE: acute toxicity estimates  
 ATP: Adaptation to technical and scientific progress  
 AWsV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Germany)  
 BAR: Biologischer Arbeitsstoff-Referenzwert  
 BCF: bioconcentration factor  
 BetrSichV: Betriebssicherheitsverordnung (Germany)  
 BG: Berufsgenossenschaft (Germany)  
 BGW: Biologischer Grenzwert  
 BLW: Biologischer Leitwert  
 BOD: biochemical oxygen demand  
 CAS: Chemical Abstracts Service  
 cATpE: converted acute toxicity point estimate  
 CEA: Comité Européen des Assurances  
 CEFIC: European Chemical Industry Council

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CESIO: Comité Européen des Agents de Surface et leurs Intermédiaires Organiques  
ChemG: Chemikaliengesetz (Germany)  
CMR: Cancerogen Mutagen Reprotoxic  
COD: chemical oxygen demand  
DFG: Deutsche Forschungsgemeinschaft  
DIN: german industry standard  
DMEL: Derived minimal effect level  
DNEL: Derived no effect level  
DOC: dissolved organic carbon  
DSL: Canada Domestic Substances List  
EAK: Europäischer Abfallkatalog  
EbC: inhibitory concentration of growth  
EC: effective concentration  
EC: European Community  
ECETOC: European Centre For Ecotoxicology and toxicology of Chemicals  
ECHA: European Chemicals Agency  
EEC: European Economic Community  
EG: Europäische Gemeinschaft  
EH40: List of approved workplace exposure limits  
EINECS: European Inventory of Existing Commercial Chemical Substances  
EKA: Expositionsäquivalente für krebserzeugende Arbeitsstoffe  
EL: effect level  
ELINCS: European List of Notified Chemical Substances  
EmS: Emergency Schedules  
EN: european standards  
ENCS: Japanese Existing and New Chemical Substances Inventory  
ERC: Environmental Release Category  
ErC: inhibitory concentration of the growth rate  
EU: European Union  
EWG: Europäische Wirtschaftsgemeinschaft  
FDA: Food and Drug Administration  
FMVSS: National Highway Traffic Safety Administration  
GefStoffV: Gefahrstoffverordnung  
GGVSee: Gefahrgutverordnung See  
GHS: Globally Harmonized System of classification and Labelling of Chemicals  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
IBC: Intermediate Bulk Container  
IC: inhibitory concentration  
ICAO: International Civil Aviation Organization  
IECSC: Chinese Chemical Inventory of Existing Chemical Substances  
IMDG: International Maritime Code for Dangerous Goods  
IMO: International Maritime Organization  
INCI: International Nomenclature of Cosmetic Ingredients  
IRPTC: International Register of Potentially Toxic Chemicals  
ISO: International Organization for Standardization  
IUCLID: International Uniform Chemical Information Database  
Cat: category  
KBwS: Kommission zur Bewertung wassergefährdender Stoffe (Germany)  
KECI: Korea Existing Chemicals Inventory  
LC: Lethal concentration  
LD: Lethal dose  
LDLo: lethal dose low  
LGK: storage category  
LL: Lethal level  
LLC: Lowest lethal concentration  
NCI: National Chemicals Inventory  
LOAEL: Lowest observed adverse effect level  
LOEC: Lowest observed effect concentration

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LOEL: Lowest observed effect level  
 Log pow: logarithm of the distribution coefficient n-octanol / water  
 LQ: limited quantity  
 MAC: Maximale aanvaarde concentratie (Netherlands)  
 MAK: Maximale Arbeitsplatz-Konzentration  
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 (MARPOL: Marine Pollution)  
 MEL: Maximum exposure limits  
 MITI: Ministry of International Trade and Industry (Japan)  
 n.a.g.: nicht anders genannt  
 NATEC: Naval Air Technical Data and Engineering Service Command  
 NCI: National Chemicals Inventory  
 NLP: No-longer Polymer  
 NOAEC: No observed adverse effect concentration  
 NOAEL: no observable adverse effect level  
 NOEC: No observable effect concentration  
 NOEL: No observable effect level  
 NOELR: no observable effect loading rate  
 NZIOC: New Zealand Inventory of Chemicals  
 OECD: Organisation for Economic Co-operation and Development  
 OEL: Occupational exposure limit  
 OELV: Occupational exposure limit value  
 OES: Occupational exposure standards  
 PBT: Persistent, Bioaccumulative and Toxic  
 PC: Product Category  
 PEC: Predicted environmental concentration  
 PICCS: Philippine Inventory of Chemicals and Chemical Substances  
 PNEC: predicted no effect concentration  
 PNEC: Predicted no effect concentration  
 POPs: Persistent organic pollutants  
 pOW: Octanol-water partition coefficient  
 PROC: Process Category  
 REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals  
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 SAE: Society of Automotive Engineers  
 STP: Sewage treatment plant  
 SU: Sector of Use  
 SUVA: Schweizerische Unfallversicherungsanstalt  
 SVHC: Substances of very high concern  
 TA Luft: Technische Anleitung zur Reinhaltung der Luft  
 TCCL: Toxic Chemical Control Law  
 ThOD: theoretical oxygen demand  
 TRA: targeted risk assessment  
 TRG: Technische Regeln Druckgase (Germany)  
 TRgA: Technische Regeln für gefährliche Arbeitsstoffe(Germany)  
 TRGS: Technische Regeln für Gefahrstoffe  
 TRK: Technische Richtkonzentration  
 TSCA: Toxic Substances Control Act (USA)  
 UN: United Nations  
 VbF: Verordnung über brennbare Flüssigkeiten  
 VCI: Verband der Chemischen Industrie e.V.  
 VDE: Verband der Elektrotechnik, Elektronik und Informtaionstechnik e.V.  
 VDI: Verein Deutscher Ingenieure  
 VLEP: Valeurs Limites d'exposition Professionnelle  
 VOC: Volatile Organic Compound  
 vPvB: Very persistent and very bioaccumulative  
 VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe  
 WEL: Workplace exposure limit

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WGK: water hazard class (Germany)

WHO: World Health Organization

WoE: Weight of Evidence

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.