Chemische Fabrik Wülfel	Safety Data Sheet	State:	03/01/2022
	in accordance with	Author:	U. Köhler/Spl
	Regulation (EC) No	Version:	3.0
	1907/2006		
	Kjeldahl tablets W04	Page	1 of 11
		1.90	
SECTION 1: Identification of 1.1. Product identifier	the substance/mixture and o	of the compa	ny /undertaking
1.1.1. Trade name	Kjeldahl tablets W04		
1.1.2. Unique Formula Identi	UFI: D600-604T-P00S-5	255	
1.2. Relevant identified uses			vised against
1.2.1. Relevant identified use			J
1.2.1.1. Use descriptor categ	ory		
Use descriptor category:			
Life cycle stage (LCS)	PW: Widespread use by		
Sector of use	SU24: Scientific researc	h and develop	oment (analytical
Technical function	chemistry) fine chemical		
1.2.1.2. European product ca		3)	
EuPCS codes:	PC-TEC-19 (Reagents a		chemicals)
1.2.2. Uses advised against		,	,
not known			
1.3. Details of the supplier of			
	Chemische Fabrik Wülfe		
	Hildesheimer Straße 30		annover, Germany
	phone number: 0049 51 fax number: 0049 511 9		
	e-mail address of the pe		ble for
	Safety Data Sheet: cfw@		
	Web: www.wuelfel.de	ginaoliao	
1.4. Emergency telephone n	umber		
	00 49 511 98496-0 (Offi		
	Monday - Thursday 8 o´	clock a.m. to 2	2 o´clock p.m.)
	or Deisen control contro no	rth (Promon	Homburg Lower
	Poison control centre no Saxony, Schleswig-Hols	· ·	namburg, Lower
	Tel.: 00 49 551-19 24 0		ncv call)
		(<i>,</i> ,
SECTION 2: Hazards identifi			
2.1. Classification of the sub			
2.1.1. Classification accordir Eye Irrit. 2; H319,	ig to Regulation (EC) No 127	2/2008 (CLP	Regulation)
Aquatic Acute 1; H400,			
Aquatic Chronic 1; H410			
2.2. Label elements			
2.2.1. Labelling according to	Regulation (EC) No 1272/20	08 (CLP Reg	ulation)
		-	
	>		
\sim			
GHS07 GHS09	9		
Signal word: WARNING			

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Hazard statements

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard information (EU)

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Precautionary statements

Prevention:

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Reaction:

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

P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

Disposal:

P501 Dispose of contents/container to local waste disposal company or to the manufacturer.

2.3. Other hazards

The mixture does not meet the criteria for classification as PBT or vPvB substance. The substances in the mixture were not included in the list established in accordance with article 59(1) for having endocrine disrupting properties. The substances are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. See also the sections 5, 6, 10, 11, 12, 15

SECTION 3: Composition/information on ingredients

3.1. Substances

The product is a mixture.

3.2. Mixtures

A mixture of potassium sulfate and small amounts of copper (II) sulfate pentahydrate and titanium (IV) oxide.

Chemical name	CAS No	EC No	REACH Registration No	% w/w	Classification according to Regulation (EC) No 1272/2008
potassium sulfate	7778-80-5	231-915-5	01-2119489441-34	94.34	not classified as hazardous
titanium (IV) oxide, titanium dioxide	13463-67-7	236-675-5	01-2119489379-17	2.83	not classified as hazardous in form of tablets ¹⁾

¹⁾ The classification of titanium dioxide as carcinogen by inhalation (Carc. 2, H351 (inhalation)) in Annex VI, Part 3, Table 3 of Regulation (EC) No. 1272/2008 applies only to mixtures in powder form containing 1% or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter \leq 10 µm (see Note 10 in Annex VI, Part 1, of the regulation).

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3.2.1. Hazardous ingredients

Chemical name	CAS No	EC No	REACH Registration No	% w/w	Classification according to Regulation (EC) No 1272/2008 (Table 3 of Annex VI)
copper (II) sulfate pentahydrate	7758-99-8	231-847-6	01-2119520566-40	2.83 (1.81 Copper (II) sulfate)	Acute Tox.4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M=10 M(chronic)=1 oral: ATE=481 mg/kg bw

3.3. Additional information

The text of H-Statements is given in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

4.1.1. General informations

Consult doctor in case of pathological signs.

4.1.2. In case of eye contact

Rinse widely opened eye for several minutes (at least 10 min) under running water. Remove contact lenses. It is advisable to use an eyewash. Further treatment by an ophthalmologist.

4.1.3. In case of skin contact

Remove contaminated clothing immediately and wash affected areas with soap and water.

4.1.4. Following ingestion

Rinse mouth with water and call a doctor! Do not induce vomiting! Encourage to drink water in small sips (dilution effect).

4.1.5. Following inhalation

If inhaling abrasive dust remove victim to fresh air.

4.1.6. Self-protection of the First Aider

Avoid contact with substance still present.

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

Vomiting, irritation of the respiratory tract.

4.3. Indication of any immediate medical attention and special treatment needed Notify a contact with water-soluble copper compounds.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

water spray, foam, carbon dioxide or extinguishing powder

Unsuitable extinguishing media:

not known

5.2. Special hazards arising from the substance or mixture

In a fire corrosive sulfur oxides and hazardous vapors of metal oxides can be released. **5.3.** Advice for firefighters

Product is non-combustible, fire-extinguishing measures are to be adapted to surrounding. **The extinguishing water should not enter the sewage system!**

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Do not eat or drink when handling Kjeldahl tablets. Always wear gloves, goggles and protective clothing.

6.2. Environmental precautions

Product should not be discharged into drains or waterways.

6.3. Methods and material for containment and cleaning up

Take up mechanically, fill in corrosion-resistant containers and then dispose of it.

6.4. Reference to other sections

See sections 4, 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not eat or drink when handling Kjeldahl tablets. Use protective gloves, goggles and protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Kjeldahl tablets should be stored dry in tightly closed containers, separate from foodstuffs, beverages and animal feedstocks.

Storage class: 13 (non-combustible solids) according to TRGS 510 (Storage of hazardous substances in nonstationary containers), Annex 4.

7.3. Specific end use(s)

For determination of nitrogen by the Kjeldahl method.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium sulfate and titanium (IV) oxide:

General limit for dust (TRGS 900 (Technical Rules for Hazardous Substances)):

Inhalable fraction (I dust): 10 mg/m³ (TWA)

Respirable fraction (R dust): 1.25 mg/m³ (TWA)

Copper and its inorganic compounds:

The limit value of 0.01 mg/m³ (measured on the respirable fraction) is proposed by the MAK Commission of the German Research Foundation (DFG). The MAK value has no legal binding.

DNEL (systemic)

All figures are taken from REACH registration dossiers for potassium sulfate, titanium (IV) oxide and copper sulfate.

and copper canate.			
Route	Substance	Worker	General population
Inhalation	potassium sulfate	37.6 mg/m ³	11.1 mg/m ³
(Long term exposure)	titanium (IV) oxide	no hazard identified ¹⁾	
	copper in dust form	1 mg/m ³	no hazard identified
	copper in fume form	0.1 mg/m ³	
Dermal	potassium sulfate	21.3 mg/kg bw/day	12.8 mg/kg bw/day
(Long term exposure)	titanium (IV) oxide	no hazard	identified
	copper (dry) and	137 mg/kg bw/day	no hazard identified
	copper compounds		
Oral	potassium sulfate	-	12.8 mg/kg bw/day
(Long term exposure)	titanium (IV) oxide	no hazard identified	
	copper in dissolved	0.041 mg/kg bw/day	0.041 mg/kg bw/day
	form		
1)			

¹⁾ The classification of titanium dioxide as carcinogen by inhalation (Carc. 2, H351 (inhalation)) in Annex VI, Part 3, Table 3 of Regulation (EC) No. 1272/2008 applies only to mixtures in powder form containing 1% or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter \leq 10 µm (see Note 10 in Annex VI, Part 1, of the regulation).

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PNEC

All figures are taken from REACH registration dossiers for potassium sulfate, titanium (IV) oxide and copper sulfate.

Substance	potassium sulfate	titanium (IV) oxide	copper in dissolved form
Freshwater	0.68 mg/l		7.8 μg/l
Seawater	0.068 mg/l		5.2 μg/l
Sediment	not sufficiently accurate		87 mg/kg sediment dw
(Freshwater)	data available		
Sediment	not sufficiently accurate		676 mg/kg sediment dw
(Seawater)	data available	no hazard identified	
Soil	not sufficiently accurate		65 mg/kg soil dw
	data available		

8.2. Exposure controls

Ensure good ventilation. Avoid formation of dust.

8.2.1. Personal protective equipment

8.2.1.1. Eye / Face protection

Safety glasses required.

8.2.1.2. Respiratory protection

Required when occurrence of dusts (particle filter P2 according to DIN 3181).

8.2.1.3. Skin protection

Chemical protective gloves, e.g. consisting of nitrile rubber (check for damage before use), penetration time (value for permeation: Level 6, > 480 min, EN 374)

8.2.2. General health and safety measures

Avoid unnecessary contact with the product.

Wash hands after work, change contaminated clothing.

While using do not eat, drink or smoke.

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

Property	Value/Description
Physical state	solid (tablets)
Weight	3.71 g
Colour	white-blue
Odour	odourless
Melting point/freezing point	not determined
Boiling point or initial boiling point and	not determined
boiling range	
Flammability	not applicable, since mixture of solids
Lower and upper explosion limit	see the comments on flammability
Flash point	not applicable, since mixture of inorganic solids
Auto-ignition temperature	not applicable, since mixture of inorganic solids
Decomposition temperature	> 560 °C (Cooper sulfate)
рН	4.35 (at 50 g/l H ₂ O) at 20 °C
Kinematic viscosity	not applicable, since mixture of inorganic solids
Solubility	111 g/l H ₂ O at 20 °C (Residue of titanium (IV) oxide)
Partition coefficient n-octanol/water	not applicable, since mixture of inorganic solids
(log value)	
Vapour pressure	< 10 ⁻¹ Pa at 20 °C
Density and/or relative density	2.7 g/cm ³ at 20 °C
Bulk density	1349 kg/m³ at 20 °C

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Relativ vapour density	Not applicable, sin		
Particle characteristics 9.2. Other information	not relevant because pressed tablets are present		

9.2. Other Information Other physical and chemical properties have not

Other physical and chemical properties have not been determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific reactivity.

10.2. Chemical stability

No decomposition when used and stored as intended.

10.3. Possibility of hazardous reactions

Not known

10.4. Conditions to avoid

The contact with moisture.

10.5. Incompatible materials

Alkalis and corrosion sensitive metals.

10.6. Hazardous decomposition products

If the product is overheated or in a fire corrosive sulfur oxides and vapors of metal oxides hazardous to health can be released.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008	
No toxicological data available for the mixture.	

11.1.1. Acute toxicity

All figures are taken from REACH registration dossiers for potassium sulfate, titanium (IV) oxide and copper sulfate.

Acute oral toxicity

Potassium sulfate: LD₅₀ (rat) > 2000 mg/kg bw (OECD Test guideline 425)

Titanium (IV) oxide: LD₅₀ (rat) > 5000 mg/kg bw (OECD Test guideline 420)

Copper (II) sulfate: LD₅₀ (rat): 481 mg/kg bw (OECD Test guideline 401)

Acute dermal toxicity

Potassium sulfate: LD₅₀ (rat) > 2000 mg/kg bw (OECD Test guideline 402)

Copper (II) sulfate: LD₅₀ (rat) > 2000 mg/kg bw (OECD Test guideline 402 and EPA OTS 789.1100)

Acute inhalation toxicity

Potassium sulfate: LC₀ (rat): 3.6 mg/m₃/4h (OECD Test guideline 433 draft), read across to Ammonium sulfate

11.1.2. Skin corrosion/irritation

The product can cause skin irritations. But the effect does not meet the criteria for classification.

11.1.3. Serious eye damage/irritation

The product can cause severe eye irritation.

11.1.4. Respiratory or skin sensitisation

Not known.

11.1.5. Germ cell mutagenicity Not known.

11.1.6. Carcinogenicity

Not known.

11.1.7. Reproductive toxicity

Not known.

11.1.8. Specific target organ toxicity (single exposure)

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11.1.9. Specific target organ	toxicity (repeated expective)		
Not known.	toxicity (repeated exposure)		
11.1.10. Aspiration hazard			
Not known. 11.2. Information on other ha			
There are no indications on other has			
SECTION 12: Ecological info			
12.1. Toxicity			
12.1.1. Acute aquatic toxicity	/		
All figures are taken from REA	CH registration dossiers for po	tassium sulfa	te and copper
sulfate.			
Toxicity to fish Potassium sulfate			
LC ₅₀ (<i>Pimephales promelas</i> , 90	3 h): 680 mg/l (Test quidelines	EPA/600/4-9	0/027 and
EPA/600/6-91/003)	, , , , , , , , , , , , , , , , , , , ,		
Copper sulfate			
LC ₅₀ (Oncorhynchus mykiss, 9			
LC ₅₀ (<i>Pimephales promelas</i> , 96 Toxicity to daphnia	5 n): 390 µg dissolved copper /	1	
Potassium sulfate			
EC50 (Daphnia magna, 48 h): 7	20 mg/l (Test guidelines EPA/	600/4-90/027	and EPA/600/6-
91/003)			
Copper sulfate		dalina 202 di	starminad in water
of different hardness and pH v	33.8 - 792 µg/l (OECD Test gui alues of 6 1 and 7 35)	deline 202, de	etermined in water
Toxicity to algae			
Potassium sulfate			
	2700 mg/l (read-across to Am	monium sulfa	te)
Copper sulfate	<i>rdtii, 96</i> h): 0.047 mg dissolved		south rota)
(OECD Test guideline 201)	<i>fulli, 90</i> ff): 0.047 ffig dissolved	i coppei /i (Gi	owin rale)
12.1.2. Chronic aquatic toxic	ity		
All figures are taken from REA		per sulfate.	
Copper sulfate			
NOEC (<i>Chlamydomonas reinh</i> (OECD Test guideline 201)	<i>ardtii,</i> 10 d): 0.022 mg dissolve	ed copper/I (G	Frowth rate)
12.2. Persistence and degrad	lability		
•	and water sediments, but is er	nriched by ade	sorption.
12.3. Bioaccumulative poten	tial	-	
	able, it is accumulated in the so		ncentration factor
	plants is in the range of 1 and	below.	
12.4. Mobility in soil Potassium sulfate has a high r	nobility due to its good solubilit	v in water	
Potassium sulfate has a high mobility due to its good solubility in water. Titanium (IV) oxide has a low mobility and remains long in soil due to its low solubility in			w solubility in
water.			·
Copper (II) sulfate has a high s	solubility in water, but it is adso	orbed by the s	oil and it is
subsequently immobilized.	/P accomment		
12.5. Results of PBT and vPvB assessment Not applicable to inorganic substances.			

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12.6. Endocrine disrupting properties

The substances in the mixture were not included in the list established in accordance with article 59(1) for having endocrine disrupting properties. The substances are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product residues and the packaging must be disposed in accordance with the Waste Directive 2008/98/EC and national and regional regulations.

The revised list of waste pursuant to article 7 of the Directive was published with the Commission's Decision 2014/955/EU.

Product

Waste key:

06 03 13* (solid salts and solutions containing heavy metals)

Packaging

Contaminated packaging should be disposed of like the product.

Waste key:

15 01 10* (packaging containing residues of or contaminated with hazardous substances).

SECTION 14: Transport information

14.1. UN number or ID number

UN3077

14.2. UN proper shipping name ADR/RID/ADN:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE; SOLID, N.O.S., (Copper(II) sulfate) IMDG-Code:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE; SOLID, N.O.S., (Copper(II) sulfate) ICAO-TI/IATA-DGR:

Environmentally hazardous substance, solid, n.o.s., (Copper(II) sulfate)

14.3. Transport hazard class(es)

9 (Miscellaneous dangerous substances and articles, including environmentally hazardous substances)



Road or rail transport takes place in limited quantities (LQ) in accordance with Chapter 3.4 of the ADR / RID Convention (application of special provision 375).



14.4. Packing group III (Substances presenting low danger)

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ADR/RID/ADN/IMDG-Code: no ICAO-TI/IATA-DGR: no This marking applies to all transport routes for transport in limited quantities (LQ). 14.6. Special precautions for user See Sections 6 - 8 14.7. Maritime transport in bulk according to IMO instruments Does not apply, it is a solid product and not a bulk good. 14.8. Additional information ADR Tunnel restriction code (-) The passage through all tunnels is allowed. **SECTION 15: Regulatory information** 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU regulations Safety Data Sheet: Regulation (EC) No 1907/2006 (REACH), Annex II (SDS) amended by Regulation (EU) 2020/878. Classification and labelling: Regulation (EC) No 1272/2008 (CLP (EU-GHS) Regulation) Seveso III Directive 2012/18/EU Kjeldahl tablets W04: E1 Hazardous to the aquatic environment, hazard category Acute 1 and Chronic 1 **15.1.2.** Basic national regulations (Germany) Act for the protection of young people at work (JArbSchG) Observe employment restrictions according to § 22 for teens. Act for the protection of mothers at work, in education and in study (MuSchG) Inadmissible activities and working conditions according to §§ 11 and 12 MuSchG for expectant and nursing mothers. Act on protection against hazardous substances (Chemicals Act (ChemG)) Regulation on protection against hazardous substances (Hazardous Substances Regulation (GefStoffV)) Regulation on bans and restrictions on the marketing and delivery of certain substances. mixtures and products pursuant to the Chemicals Act (ChemVerbotsV) Ordinance on facilities for handling substances that are hazardous to water (AwSV) of 18 April 2017. Potassium sulfate (identification number: 255, see database Rigoletto): Water hazard class (WGK): 1 (slightly hazardous to water)

Titanium (IV) oxide (identification number: 1345, see database Rigoletto) – Water hazard class (WGK): non-hazardous to water (nwg)

Copper sulfate (identification number: 141, see database Rigoletto): Water hazard class (WGK): 3 (highly hazardous to water)

Water hazard class (WGK) of Kjeldahl tablets W04: 3 (highly hazardous to water)

(Derivation: mass fraction of copper sulfate (M factor: $10) \ge 3\%$, see AwSV, Annex 1, section 5.2.1 Derivation of water hazard class 3)

15.2. Chemical Safety Assessment

14.5. Environmental hazards

Environmentally hazardous substance:

For this product a chemical safety assessment was not created.

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	· •		
SECTION 16: Other informat	tion		
16.1. Indication of changes			
	ed office hours n of information about endocrin	o diorupting n	roportion
	n of harmonised classification of		
	n with DNEL values for copper		
	tion to Regulation (EU) 2020/8		
Subsection 11.2 new	3 ()		
Subsection 12.6 new			
	key marked with an asterisk		
Subsection 15.1.1 update			
Subsection 16.3 update			
	asses and the hazard catego d categories in subsection 2.		
,	s eye irritation, category 2	. 1. 1.	
	dous to the aquatic environmen	t acute cated	nory 1
	lous to the aquatic environmen		
	ding to Regulation (EC) No 12		
specified in section 3	••••	·	
H400 - Very toxic to aquatic lif			
H410 - Very toxic to aquatic lif	e with long lasting effects.		
H302 - Harmful if swallowed.			
H318 - Causes serious eye da	-		
16.3. Literature and sources			
Directives and Regulations Regulation (EC) No 1907/200	6 (REACH), was last amended	by Regulation	(FU) 2021/2204
	C) No 1272/2008, was last ame		
2021/1962	-,		
Directive 2012/18/EU (Seveso	o III).		
Copper compounds			
	of copper compounds, EFSA	Scientific Rep	ort (2008)
Titanium dioxide	d laballing of titopium disvida. C	antanah an 200	
	d labelling of titanium dioxide, S	september 20.	ZI, ECHA
REACH registration dossier		40)	
Copper (II) sulfate (REACH Registration No 01-2119520566-40) Titanium (IV) oxide (REACH Registration No 01-2119489379-17)			
Potassium sulfate (REACH Registration No 01-2119489441-34)			
	e with Chapter 2, Article 9 of		EC) No 1272/2008
	nation that has been used for		
	4.1.1 and 4.1.2 of Part I of Ann	ex 4 of Regul	ation (EC) No
1272/2008.			
16.5. Abbreviations and acre ADN Accord europée	onyms en relatif au transport internatio	al des marst	andises
	ar voie de navigation intérieure		
	International Carriage of Dange		
Waterways			- ,
	en relatif au transport internatio	nal des march	nandises
	ar Route - European arrangem		
transport of dar	ngerous goods on the streets.		
ATE Acute Toxicity I	Estimates		
bw body weight			
CAS Chemical Abstr	acts Service		

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CLP	Classification, Labelling, Packaging
DFG	German Research Foundation – Deutsche Forschungsgemeinschaft
DIN	German Institute for Standardization Incorporated Society –
	Deutsche Institut für Normung e. V.
DNEL	Derived No Effect Level
dw	dry weight
EC	European Community
EC	Effective Concentration
ECr	Effective Concentration (Growth rate)
ECHA	European Chemicals Agency
EFSA	European Food Safety Authority
EN	European Standards
EPA	Environmental Protection Agency
EU	European Union
GHS	Globally Harmonized System of Classification, Labelling and Packaging of
	Chemicals
IATA-DGR	International Air Transport Association-Dangerous Goods Regulation
ICAO-TI	International Civil Aviation Organization - Technical Instructions
IMDG-Code	International Maritime Code for Dangerous Goods
IMO	International Maritime Organization
LC	Lethal Concentration
LD	Lethal Dose
MAK	Maximum Workplace Concentration - Maximale Arbeitsplatzkonzentration
NOEC	No Observed Effect level Concentration
) Not otherwise specified
OECD	Organisation for Economic Co-operation and Development (Organisation de
	coopération et de développement économiques, OCDE)
PBT	Persistent, Bioaccumulative, Toxic
PNEC	Predicted No Effect Concentration
REACH	Regulation, Evaluation and Authorization of Chemicals
RID	Règlement concernant le transport International ferroviaire de
	marchandises Dangereuses - Regulation for the international
	transport of dangerous goods in the rail transport.
TRGS	Technical Rules for Hazardous Substances
TWA	Time-Weighted Average
UN	United Nations
vPvB	very persistent and very bioaccumulative
	rinformation
	ion is based on our present knowledge, they do not constitute an assurance of
product prope	erties and establishes no contract legal rights.