

Chemische Fabrik Wülfel	<b>Safety Data Sheet in accordance with Regulation (EC) No 1907/2006</b>	State: 02/27/2018 Author: U. Köhler/Spl
	<b>Kjeldahl tablets W02</b>	Version: 1.1 Page 1 of 11

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

### 1.1. Product identifier

1.1.1. Trade name: **Kjeldahl tablets W02**

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

#### 1.2.1. Relevant identified uses

Use descriptor category:

Life cycle stage (LCS) PW: Widespread use by professional workers

Sector of use SU24: Scientific research and development (analytical chemistry)

Technical function: fine chemical

#### 1.2.2. Uses advised against

not known

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

Chemische Fabrik Wülfel GmbH & Co. KG  
Hildesheimer Straße 305, D-30519 Hannover, Germany

phone number: 0049 511 98496-0,

fax number: 0049 511 98406-40

e-mail address of the person responsible for

Safety Data Sheet: [cfw@wuelfel.de](mailto:cfw@wuelfel.de)

Web: [www.wuelfel.de](http://www.wuelfel.de)

### 1.4. Emergency telephone number

00 49 511 98496-0 (Office hours:

Monday - Thursday 8 o'clock a.m. to 4 o'clock p.m.)

or

Poison control centre north (Bremen, Hamburg, Lower Saxony,  
Schleswig-Holstein)

Tel.: 00 49 551-19 24 0 (24h emergency call)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### 2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP Regulation)

Eye Irrit. 2; H319,

Aquatic Acute 1; H400,

Aquatic Chronic 1; H410

### 2.2. Label elements

#### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)



GHS07



GHS09

**Signal word: WARNING**

### Hazard statements

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

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### 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 the manufacturer.

#### 2.3. Other hazards

The mixture does not meet the criteria for classification as PBT or vPvB substance.

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

#### 3.2.1. Hazardous ingredients

Chemical name	CAS No	EC No	REACH Registration No	% w/w	Classification according to Regulation (EC) No 1272/2008
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

#### 3.3. Additional information

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

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#### **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 under running water. It is advisable to use an eyewash. Remove contact lenses, if present and easy to do. 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!**

#### **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.

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

Kjeldahl tablets should be stored dryly in tightly closed containers, separately 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/m<sup>3</sup> (TWA)

Respirable fraction (R dust): 1.25 mg/m<sup>3</sup> (TWA)

For *copper (II) sulfate*, limits of 0.1 mg/m<sup>3</sup> (measured at the inhalable aerosol fraction) and of 0.01 mg/m<sup>3</sup> (measured at the respirable aerosol fraction) the MAK Commission has suggested. The MAK value has no legal binding.

<b>DNEL (systemic)</b>			
All figures are taken from REACH registration dossiers for potassium sulfate, titanium (IV) oxide and copper sulfate.			
Route	Substance	Worker	General population
Inhalation (Long time exposure)	potassium sulfate	37.6 mg/m <sup>3</sup>	11.1 mg/m <sup>3</sup>
	titanium (IV) oxide	10 mg/m <sup>3</sup>	-
	copper in watersoluble dusts	0.041 mg/kg bw/day	
Dermal (Long time exposure)	potassium sulfate	21.3 mg/kg bw/day	12.8 mg/kg bw/day
	titanium (IV) oxide	-	-
	copper in dissolved form	0.041 mg/kg bw/day	
Oral (Long time exposure)	potassium sulfate	-	12.8 mg/kg bw/day
	titanium (IV) oxide	-	700 mg/kg bw/day
	copper in dissolved form	0.041 mg/kg bw/day	

<b>PNEC</b>			
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	0.127 mg/l	7.8 µg/l
Seawater	0.068 mg/l	1 mg/l	5.2 µg/l
Sediment (Freshwater)	not sufficiently accurate data available	1000 mg/kg sediment dw	87 mg/kg sediment dw
Sediment (Seawater)	not sufficiently accurate data available	100 mg/kg sediment dw	676 mg/kg sediment dw
Soil	not sufficiently accurate data available	100 mg/kg soil dw	65 mg/kg soil dw

### 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.

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### 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

Appearance:	tablets
Physical state:	solid
Colour:	white-blue
Odour:	odourless
Odour threshold:	not applicable
Weight:	5.3 g
pH value (20 °C):	4.35 (at 50 g/l H <sub>2</sub> O)
Melting point:	not determined
Freezing point:	not applicable
Initial boiling point and boiling range:	not applicable
Flash point:	not flammable
Flammability:	not flammable
Upper/lower flammability or explosive limits:	not applicable
Vapour Pressure (20 °C):	< 10 <sup>-3</sup> mbar
Vapour density:	not applicable
Density (20 °C):	2.7 g/cm <sup>3</sup>
Bulk Density (20 °C):	1250 kg/m <sup>3</sup>
Water solubility (20 °C):	120 g/l (Residue of titanium (IV) oxide)
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature:	not applicable
Decomposition temperature:	> 560 °C (Copper sulfate)
Viscosity:	not applicable
Explosive properties:	not applicable
Oxidising properties:	not applicable

### 9.2. Other information

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.

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## 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 toxicological effects

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: LD<sub>50</sub> (rat) 6600 mg/kg bw (RTECS)

Titanium (IV) oxide: LD<sub>50</sub> (rat) > 5000 mg/kg bw (OECD Test guideline 420)

Copper (II) sulfate: LD<sub>50</sub> (rat) 481 mg/kg bw (OECD Test guideline 401)

##### Acute dermal toxicity

Potassium sulfate: LD<sub>50</sub> (rat) > 2000 mg/kg bw (OECD Test guideline 402)

Copper (II) sulfate: LD<sub>50</sub> (rat) > 2000 mg/kg bw (OECD Test guideline 402)

##### Acute inhalation toxicity

Potassium sulfate: LC<sub>50</sub>: (rat) > 1200 mg/l/4h

Titanium (IV) oxide: LC<sub>50</sub>: (rat) 3.43 – 5.09 mg/l/4h

#### 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. Eye damage/irritation

The product can cause eye irritation.

#### 11.1.4. Sensitisation to the respiratory tract and the skin

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)

Not known.

#### 11.1.9. Specific target organ toxicity (repeated exposure)

Not known.

#### 11.1.10. Aspiration hazard

Not known.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### 12.1.1. Acute aquatic toxicity

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

##### **Toxicity to fish**

##### Potassium sulfate

LC<sub>50</sub> (*Pimephales promelas*, 96 h): 680 mg/l (Test guidelines EPA/600/4-90/027 and EPA/600/6-91/003)

##### Titanium (IV) oxide

LC<sub>50</sub> (*Pimephales promelas*, 96 h): >1000 mg/l (Test guideline EPA/540/9-85-006)

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#### Copper sulfate

LC<sub>50</sub> (*Oncorhynchus mykiss*, 96 h): 190 - 210 µg dissolved copper /l

LC<sub>50</sub> (*Pimephales promelas*, 96 h): 390 µg dissolved copper /l

#### **Toxicity to daphnia**

##### Potassium sulfate

EC<sub>50</sub> (*Daphnia magna*, 48 h): 720 mg/l (Test guidelines EPA/600/4-90/027 and EPA/600/6-91/003)

##### Copper sulfate

EC<sub>50</sub> (*Daphnia magna*, 48 h): 33.8 - 792 µg/l (OECD Test guideline 202, determined in water of different hardness and pH values of 6.1 and 7.35)

#### **Toxicity to algae**

##### Potassium sulfate

EC<sub>50</sub> (*Chlorella vulgaris*, 18 d): 2700 mg/l (read-across to Ammonium sulfate)

##### Titanium (IV) oxide

EC<sub>r50</sub> (*Pseudokirchnerella subcapitata*, 72 h): 61-74 mg/l (Growth rate)  
(Test guideline EPA/600/9-78-018)

##### Copper sulfate

EC<sub>r50</sub> (*Chlamydomonas reinhardtii*, 96 h): 0.047 mg dissolved copper /l (Growth rate)  
(OECD Test guideline 201)

#### **12.1.2. Chronic aquatic toxicity**

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

##### Potassium sulfate

NOEC (*Pseudokirchnerella subcapitata*, 72 h): 100 mg/l

##### Titanium (IV) oxide

NOEC (*Pseudokirchnerella subcapitata*): 1 mg/l

##### Copper in dissolved form:

NOEC for aquatic invertebrates: 3.12 µg/l

#### **12.2. Persistence and degradability**

Copper is not degraded in soil and water sediments, but is enriched by adsorption.

#### **12.3. Bioaccumulative potential**

Since copper is not biodegradable, it is accumulated in the soil. The bioconcentration factor (BCF) obtained for a variety of plants is in the range of 1 and below.

#### **12.4. Mobility in soil**

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 water.

Copper (II) sulfate has a high solubility in water, but it is adsorbed by the soil and it is subsequently immobilized.

#### **12.5. Results of PBT and vPvB assessment**

Not applicable to inorganic substances.

#### **12.6. 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.

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### **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**

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:**

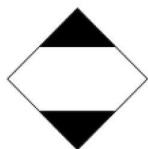
Environmentally hazardous substance, solid, n.o.s., (Copper(II) sulfate)

#### **14.3. Transport hazard class(es)**

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



Transport in limited quantities in accordance with Chapter 3.4 of the ADR agreement.



#### **14.4. Packing group**

III (Substances presenting low danger)

#### **14.5. Environmental hazards**

Environmentally hazardous substance:

**ADR/RID/ADN/IMDG-Code:** no

**ICAO-TI/IATA-DGR:** no

This definition applies for the transport on the basis of section 3.4 of the ADR agreement.

#### **14.6. Special precautions for user**

See Sections 6 - 8

#### **14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

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.



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## **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) 2015/830.

##### Classification and labelling:

Regulation (EC) No 1272/2008 (CLP (EU-GHS) Regulation)

##### Seveso III

Directive 2012/18/EU

Kjeldahl tablets W02: 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 W02: 3 (highly hazardous to water)

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

#### **15.2. Chemical Safety Assessment**

For this product a chemical safety assessment was not created.

## **SECTION 16: Other information**

### **16.1. Indication of changes**

Subsection 2.2.1. - Update according to CLP Regulation

### **16.2. Codes of the hazard classes and the hazard categories**

#### **a) Hazard classes and hazard categories in subsection 2.1.1.**

Eye Irrit. 2 - Serious eye irritation, category 2

Aquatic Acute 1 - Hazardous to the aquatic environment, acute, category 1

Aquatic Chronic 1 - Hazardous to the aquatic environment, chronic, category 1

#### **b) Hazard statements according to Regulation (EC) No 1272/2008, the text was not specified in section 3**

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

H302 - Harmful if swallowed.

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H318 - Causes serious eye damage.

### 16.3. Literature and sources

#### Directives and Regulations

REACH Regulation (EC) No 1907/2006 as last amended by Regulation (EU) 2018/35.

CLP (EU-GHS) Regulation (EC) No 1272/2008, as last amended by Regulation (EU) 2017/776.

Directive 2012/18/EU (Seveso III).

#### Copper compounds

Conclusion on the peer review of copper compounds, EFSA Scientific Report (2008)

#### REACH registration dossiers

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)

### 16.4. Methods in accordance with Chapter 2, Article 9 of Regulation (EC) No 1272/2008 for assessing the information that has been used for the purpose of classification

Aquatic toxicity: Use of tables 4.1.1 and 4.1.2 of Part I of Annex 4 of Regulation (EC) No 1272/2008.

### 16.5. Abbreviations and acronyms

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route - European arrangements about the international transport of dangerous goods on the streets.
bw	body weight
CAS	Chemical Abstracts Service
CLP	Classification, Labelling, Packaging
DIN	German Institute for Standardization Incorporated Society - Deutsches Institut für Normung e. V.
DNEL	Derived No Effect Level
dw	dry weight
EC	European Community
EC	Effective Concentration
EC <sub>r</sub>	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
IBC-Code	International code for the construction and the equipment of ships for the transport of dangerous goods as bulk goods.
IMDG-Code	International Maritime Code for Dangerous Goods
LC	Lethal Concentration
LD	Lethal Dose
MAK	Maximum Workplace Concentration - Maximale Arbeitsplatzkonzentration
MARPOL	Maritime Pollution Convention
NOEC	No Observed Effect level Concentration
nwg	non-hazardous to water (nicht wassergefährdend)

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OECD PBT PNEC REACH RID  RTECS TRGS TWA UN vPvB	Organisation for Economic Co-operation and Development (Organisation de coopération et de développement économiques, OCDE) Persistent, Bioaccumulative, Toxic Predicted No Effect Concentration Regulation, Evaluation and Authorization of Chemicals Règlement concernant le transport International ferroviaire de marchandises Dangereuses - Regulation for the international transport of dangerous goods in the rail transport. Registry of Toxic Effects of Chemical Substances Technical Rules for Hazardous Substances Time-Weighted Average United Nations very persistent and very bioaccumulative
<b>16.6. Further information</b> This information is based on our present knowledge, they do not constitute an assurance of product properties and establishes no contract legal rights.	