

Chemische Fabrik Wülfel	Safety Data Sheet in accordance with Regulation (EC) No 1907/2006	State: 02/11/2019 Author: Splendido
	Kjeldahl tablets W16	Version: 2.0 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 W16**

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

Web: 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 Dam. 1; H318,

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)



GHS05



GHS09

Signal word: DANGER

Hazard statements

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P273 Avoid release to the environment.

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

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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.
P310 Immediately call a POISON CENTER/doctor.
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**

This product is a mixture.

3.2. Mixtures

A mixture of potassium sulfate, small amounts of copper (II) sulfate and a very small quantity of selenium.

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	93.46	not classified as hazardous

3.2.1. Hazardous ingredients

Chemical name	CAS No	EC No	REACH Registration No	% w/w	Harmonised classification according to Regulation (EC) No 1272/2008. (Table 3 of Annex VI) ¹⁾
copper (II) sulfate pentahydrate	7758-99-8	231-847-6	01-2119520566-40	5.62 (3.59 Copper (II) sulfate)	Acute Tox.4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M=10
Selenium	7782-49-2	231-957-4	01-2119981706-25	0.92	Acute Tox 3*; H301 Acute Tox 3*; H331 STOT RE 2*; H373** Aquatic Chronic 4; H413 * Minimum classification ²⁾ ** No indication of the exposure pathway

¹⁾ The harmonized classification was based on Table 1.1 in Annex VII to the Regulation.

²⁾ According to the available toxicological data (see section 11), the stated minimum classification is incorrect. After that, H301, H331 and H373 can be omitted (see the section entitled "Justification for classification or non-classification" in the REACH Dossier of Selenium).

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 (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

None

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 sulphur and selenium 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.

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.

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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:

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.

Selenium:

OEL (TRGS 900): 0.05 mg/m³ inhalable fraction (Exceeding factor: 1 (I) with (I) for substances where the local effect is limiting or for respiratory sensitizers)

Selenium and its inorganic compounds:

BAT value (List of the DFG, 2018): 150 µg selenium/l (Specimen: serum)

DNEL (systemic)			
All figures are taken from REACH registration dossiers for potassium sulfate, copper sulfate and selenium.			
Route	Substance	Worker	General population
Inhalation (Long time exposure)	potassium sulfate	37.6 mg/m ³	11.1 mg/m ³
	copper in water-soluble dusts	Data not provided by the registrant	
	selenium	0.05 mg/m ³	0.015 mg/m ³
Dermal (Long time exposure)	potassium sulfate	21.3 mg/kg bw/day	12.8 mg/kg bw/day
	copper in dissolved form	Data not provided by the registrant	
	selenium	7 mg/kg bw/day	4.3 mg/kg bw/day
Oral (Long time exposure)	potassium sulfate	-	12.8 mg/kg bw/day
	copper in dissolved form	Data not provided by the registrant	
	selenium	-	4.3 µg/kg bw/day

PNEC			
All figures are taken from REACH registration dossiers for potassium sulfate, copper sulfate and selenium.			
Substance	potassium sulfate	copper in dissolved form	selenium
Freshwater	0.68 mg/l	7.8 µg/l	2.67 µg/l
Seawater	0.068 mg/l	5.2 µg/l	2 µg/l
Sediment (Freshwater)	not sufficiently accurate data available	87 mg/kg sediment dw	8.2 mg/kg Sediment dw
Sediment (Seawater)	not sufficiently accurate data available	676 mg/kg sediment dw	6.2 mg/kg Sediment dw
Soil	not sufficiently accurate data available	65 mg/kg soil dw	0.1 mg/kg Boden dw

8.2. Exposure controls

Ensure good ventilation. Avoid formation of dust.

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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

Appearance:	grey tablets
Weight:	5 g
Odour:	odourless
Odour threshold:	not applicable
pH value (20 °C):	4.14 (at 50 g/l H ₂ O)
Melting point or melting range:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	not applicable, since mixture of solids
Evaporation rate:	not determinable, since vapor pressure too low
Flammability:	not applicable, since mixture of inorganic solids
Upper/lower flammability or explosive limits:	see the comments on flammability
Vapour Pressure (20 °C):	< 10 ⁻³ mbar (< 10 ⁻¹ Pa)
Vapour density:	not applicable, since vapor pressure too low
Density (20 °C):	2.66 g/cm ³
Bulk Density (20 °C):	1290 kg/m ³
Solubilities	
Solubility in water (20 °C):	111 g/l (residue of selenium)
Partition coefficient: n-octanol/water (log K _{ow}):	not determined, since mixture of inorganic solids
Auto-ignition temperature:	not applicable, since inorganic solid
Decomposition temperature:	> 560 °C (Copper sulfate)
Viscosity:	not applicable, since solid
Explosive properties:	not applicable, since stable inorganic solid (insensitive to heat, impact or friction, contains no chemically unstable or high energetic groups)
Oxidising properties:	not applicable, all components contain no oxidizing acting molecule groups

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.

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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 fire corrosive sulphur oxides, vapors of metal oxides and selenium oxides hazardous to health can be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data available for the mixture.

For selenium generally applies:

Selenium is an essential trace element for humans. See "Opinion of the Scientific Committee on Food on the Tolerable Upper Intake Level of Selenium" (SCF/CS/NUT/UPPLEV/25 Final, November 28, 2000).

In elemental form, selenium is considered to be acutely relatively non-toxic, with the exception of exposure to fine dust or smoke.

11.1.1. Acute toxicity

All figures are taken from REACH registration dossiers for potassium sulfate, copper sulfate and selenium.

Acute oral toxicity

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

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

Selenium (powder form): LD₅₀ (rat) > 5000 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)

Acute inhalation toxicity

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

Selenium powder (Aerosol): LC₅₀: (rat) > 5.67 mg/l/4h (Test guideline EPA OPP 81-3)

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 damage.

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.

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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, copper sulfate and selenium.

Toxicity to fish

Potassium sulfate

LC₅₀ (*Pimephales promelas*, 96 h): 680 mg/l (Test guidelines EPA/600/4-90/027 and EPA/600/6-91/003)

Copper sulfate

LC₅₀ (*Oncorhynchus mykiss*, 96 h): 190 - 210 µg dissolved copper /l

LC₅₀ (*Pimephales promelas*, 96 h): 390 µg dissolved copper /l

Selenium

LC₅₀ (*Oncorhynchus mykiss*, 96 h): > 100 mg selenium/l (nominal) (OECD Test guideline 203)
> 26.2 µg selenium/l (solved)

Toxicity to daphnia

Potassium sulfate

EC₅₀ (*Daphnia magna*, 48 h): 720 mg/l (Test guidelines EPA/600/4-90/027 and EPA/600/6-91/003)

Copper sulfate

EC₅₀ (*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)

Selenium

EC₅₀ (*Daphnia magna*, 48 h): > 100 mg/l (nominal) (OECD Test guideline 202)
> 160,3 µg Selen/l (solved)

Toxicity to algae

Potassium sulfate

EC₅₀ (*Chlorella vulgaris*, 18 d): 2700 mg/l (read-across to Ammonium sulfate)

Copper sulfate

EC_{r50} (*Chlamydomonas reinhardtii*, 96 h): 0.047 mg dissolved copper /l (Growth rate)
(OECD Test guideline 201)

Selenium

EC_{r50} (*Pseudokirchneriella subcapitata*, 72 h): > 1.73 µg selenium/l (solved) (Growth rate)
(OECD Test guideline 201)

12.1.2. Chronic aquatic toxicity

All figures are taken from REACH registration dossiers for copper sulfate and selenium.

Copper sulfate

NOEC (*Chlamydomonas reinhardtii*, 10 d): 0.022 mg dissolved copper/l (Growth rate)
(OECD Test guideline 201)

Selenium

NOEC (*Oncorhynchus mykiss*, 28 d): ≥ 10 mg selenium/l (nominal) (OECD Test guideline 215)
≥ 1.57 µg selenium/l (solved)

NOEC (*Daphnia magna*, 21 d): ≥ 3.42 µg selenium/l (solved) (OECD Test guideline 211)

NOEC (*Pseudokirchneriella subcapitata*, 72 h): 0.547 µg selenium/l (solved) (Growth rate)
(OECD Test guideline 201)

12.2. Persistence and degradability

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

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

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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.

Selenium is not biodegradable, it is accumulated in the soil.

12.4. Mobility in soil

Potassium sulfate has a high mobility due to its good solubility in water.

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

Selenium is water-insoluble and is enriched in the soil and converted by a longer period of time due to oxidation in water-soluble selenium compounds.

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.

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)

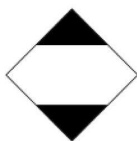
14.3. Transport hazard class(es)

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



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).

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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 marking applies to all transport routes for transport in limited quantities (LQ).

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.

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 W16: 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: 1 (slightly hazardous to water)

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

Selenium (identification number: 2751, see database Rigoletto) - Water hazard class: 2 (obviously hazardous to water)

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Water hazard class (WGK) of Kjeldahl tablets W16: 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 3.2.1. - Update
Subsection 8.1. - Update
Subsection 9.1. - Update
Subsection 11.1.1. - Update
Subsection 12.1.1. - Update
Subsection 12.1.2. - Update
Subsection 16.3. - Update
Subsection 16.5. - Update

16.2. Codes of the hazard classes and the hazard categories

a) Hazard classes and hazard categories in subsection 2.1.1.

Eye Dam. 1 - Serious eye damage, category 1
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.
H301 - Toxic if swallowed.
H302 - Harmful if swallowed.
H318 - Causes serious eye damage.
H331 - Toxic if inhaled.
H373 - May cause damage to organs through prolonged or repeated exposure.
H413 - May cause long lasting harmful effects to aquatic life.

16.3. Literature and sources

Directives and Regulations

REACH Regulation (EC) No 1907/2006 as last amended by Regulation (EU) 2018/2005.

CLP (EU-GHS) Regulation (EC) No 1272/2008, as last amended by Regulation (EU) 2018/1480.

Directive 2012/18/EU (Seveso III).

Copper compounds

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

REACH registration dossiers

Potassium sulfate (REACH Registration No 01-2119489441-34)

Copper (II) sulfate (REACH Registration No 01-2119520566-40)

Selenium (REACH Registration No 01-2119981706-25)

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

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ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route - European arrangements about the international transport of dangerous goods on the streets.
BAT value	biological agent tolerance value – Biologischer Arbeitsstoff-Toleranz-Wert
bw	body weight
CAS	Chemical Abstracts Service
CLP	Classification, Labelling, Packaging
DFG	German Research Foundation – Deutsche Forschungsgemeinschaft
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 _r	Effective Concentration (Growth rate)
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.
ICAO-TI	International Civil Aviation Organization - Technical Instructions
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
OECD	Organisation for Economic Co-operation and Development (Organisation de coopération et de développement économiques, OCDE)
OEL	Occupational Exposure Limit
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
16.6. Further information	
This information is based on our present knowledge, they do not constitute an assurance of product properties and establishes no contract legal rights.	