

Chemische Fabrik Wülfel	Safety Data Sheet in accordance with Regulation (EC) No 1907/2006	State: 03/01/2022 Author: U. Köhler/Spl Version: 3.0
	Kjeldahl tablets W21-W23 according to Missouri	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 W21 according to Missouri

Kjeldahl tablets W22 according to Missouri

Kjeldahl tablets W23 according to Missouri

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 2 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)

Aquatic Chronic 2; H411

2.2. Label elements

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



GHS09

No Signal word

Hazard statements

H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements

Prevention:

P273 Avoid release to the environment.

Reaction:

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. 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 sodium sulfate and small amounts of copper (II) sulfate (water-free).

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	48.40	not classified as hazardous
sodium sulfate, water-free	7757-82-6	231-820-9	01-2119519226-43	48.30	not classified as hazardous

3.2.1. Hazardous ingredients

Chemical name	CAS No	EC No	REACH Registration No	% w/w	Harmonized classification according to Regulation (EC) No 1272/2008 (Table 3 of Annex VI) ¹⁾
copper (II) sulfate, water-free	7758-98-7	231-847-6	01-2119520566-40	0.30	Acute Tox.4 [*] ; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 [*] Minimum classification

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

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

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.

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 and sodium 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.

DNEL (systemic)

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

Route	Substance	Worker	General population
Inhalation (Long term exposure)	potassium sulfate	37.6 mg/m ³	11.1 mg/m ³
	sodium sulfate	20 mg/m ³	12 mg/m ³
	copper in dust form	1 mg/m ³	no hazard identified
	copper in fume form	0.1 mg/m ³	
Dermal (Long term exposure)	potassium sulfate	21.3 mg/kg bw/day	12.8 mg/kg bw/day
	sodium sulfate	no hazard identified	
	copper (dry) and copper compounds	137 mg/kg bw/day	no hazard identified
Oral (Long term exposure)	potassium sulfate	-	12.8 mg/kg bw/day
	sodium sulfate	no hazard identified	
	copper in dissolved form	0.041 mg/kg bw/day	0.041 mg/kg bw/day

PNEC

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

Substance	potassium sulfate	sodium sulfate	copper in dissolved form
Freshwater	0.68 mg/l	11.09 mg/l	7.8 µg/l
Seawater	0.068 mg/l	1.109 mg/l	5.2 µg/l
Sediment (Freshwater)	not sufficiently accurate data available	40.2 mg/kg sediment dw	87 mg/kg sediment dw
Sediment (Seawater)	not sufficiently accurate data available	4.02 mg/kg sediment dw	676 mg/kg sediment dw
Soil	not sufficiently accurate data available	1.54 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.

8.2.1.2. Respiratory protection

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

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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	2.5 g (W21), 3.5 g (W22), 5 g (W23)
Colour	white
Odour	odourless
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
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)
pH	4.74 (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
Partition coefficient n-octanol/water (log value)	not applicable, since mixture of inorganic solids
Vapour pressure	< 10 ⁻¹ Pa at 20 °C
Density and/or relative density	2.7 g/cm ³ at 20 °C
Bulk density	1370 kg/m ³ (2.5 g), 1280 kg/m ³ (3.5 g), 1265 kg/m ³ (5 g) bei 20 °C
Relativ vapour density	Not applicable, since vapour pressure too low
Particle characteristics	not relevant because pressed tablets are present

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 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, sodium sulfate and copper sulfate.

Acute oral toxicity

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

Sodium sulfate: LD₅₀ (rat) > 2000 mg/kg bw (OECD Test guideline 423)

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

Sodium sulfate: LC₅₀ (rat) > 2.4 mg/l/4h (OECD Test guideline 436)

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 eye irritation. But the effect does not meet the criteria for classification.

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)

Not known

11.1.9. Specific target organ toxicity (repeated exposure)

Not known

11.1.10. Aspiration hazard

Not known

11.2. Information on other hazards

There are no indications on other hazards.

SECTION 12: Ecological information

12.1. Toxicity

12.1.1. Acute aquatic toxicity

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

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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)

Sodium sulfate

LC₅₀ (*Pimephales promelas*, 96 h): 7960 mg/l (Test guideline EPA/600/4-90/027)

Copper sulfate

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

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

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)

Sodium sulfate

EC₅₀ (*Daphnia magna*, 48 h): 4736 mg/l (Test guideline EPA/600/4-90/027)

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)

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)

12.1.2. Chronic aquatic toxicity

All figures are taken from REACH registration dossier for copper sulfate.

Copper sulfate

NOEC (*Chlamydomonas reinhardtii*, 10 d): 0.022 mg dissolved copper/l (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.

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.

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. 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

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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:

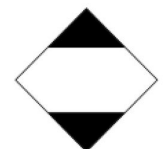
Environmentally hazardous substance, solid, n.o.s., (Copper(II) sulfate)

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)

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

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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 W21-W23 according to Missouri: E2 Hazardous to the aquatic environment, hazard category Chronic 2

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)

Sodium sulfate (identification number: 286, see database Rigoletto) - Water hazard class (WGK): 1 (slightly hazardous to water)

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

Water hazard class (WGK) of Kjeldahl tablets W21-W23 according to Missouri: 2 (obviously hazardous to water)

(Derivation: mass fraction of copper sulfate = 0.3%, see AwSV, Annex 1, section 5.2.2

Derivation of water hazard class 2)

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 1.4. - changed office hours

Subsection 2.3. - addition of information about endocrine disrupting properties

Subsection 8.1. - addition with DNEL values for copper sulfate from REACH dossier

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Subsection 9.1. - adaptation to Regulation (EU) 2020/878

Subsection 11.2. - new

Subsection 12.6. - new

Subsection 13.1. - Waste key marked with an asterisk

Subsection 15.1.1. - update

Subsection 16.3. - update

16.2. Codes of the hazard classes and the hazard categories

a) Hazard classes and hazard categories in subsection 2.1.1.

Aquatic Chronic 2 - Hazardous to the aquatic environment, chronic, category 2

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.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

16.3. Literature and sources

Directives and Regulations

Regulation (EC) No 1907/2006 (REACH), was last amended by Regulation (EU) 2021/2204
CLP (EU-GHS) Regulation (EC) No 1272/2008, was last amended by Regulation (EU)
2021/1962

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)

Sodium sulfate (REACH Registration No 01-2119519226-43)

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 table 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

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

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EC _r	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
N.O.S. (n.o.s.)	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
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.	