Chemische Fabrik Wülfel	Safety Data Sheet in accordance with Regulation (EC) No 1907/2006	State: Author: Version:	03/01/2022 Splendido 3.0
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	substance/mixture and of the company /undertaking			
1.1. Product identifier	Kialdahl tahlata W12			
1.1.1. Trade name	Kjeldahl tablets W13			
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			
1.5. Details of the supplier of the	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 numb				
	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 substar	nce or mixture			
The content of selenium correspon	ids to the general cut-off value of 0.1 % w/w for			
	gories 1 to 3 (see Table 1.1 in Annex I of the CLP			
Regulation).	5			
	Regulation (EC) No 1272/2008 (CLP Regulation)			
No hazardous mixture.				
2.2. Label elements				
None				
2.3. Other hazards				
The mixture does not meet the crite	eria for classification as PBT or vPvB substance. The			
substances in the mixture were not	t included in the list established in accordance with article			
59(1) for having endocrine disrupting	ng properties. The substances are not identified as having			
endocrine disrupting properties in a	accordance with the criteria set out in Commission			
	100 or Commission Regulation (EU) 2018/605.			
See also the sections 5, 6, 10, 11,	12, 15.			
SECTION 3: Composition/inform	ation on ingredients			
3.1. Substances				
This product is a mixture.				
3.2. Mixtures				

3.2. Mixtures

A mixture of potassium sulfate and a very small quantity of selenium.

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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	99.9	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. (Table 3 of Annex VI) ¹⁾
selenium	7782-49-2	231-957-4	01-2119981706-25	0.1	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.

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

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•	a line an incente al line i				
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!					
The extinguishing wa	iter should not enter t	ine sewage system!			
SECTION 6: Accident	al release measures				
6.1. Personal precaut	ions, protective equip	oment and emergency	procedures		
		hen handling Kjeldahl ta			
gloves, goggles and pr	otective clothing.		-		
6.2. Environmental pr	recautions				
Product should not be	discharged into drains	or waterways.			
6.3. Methods and mat	terial for containment	and cleaning up			
Take up mechanically.	In the post-cleaning av	oid formation of dust. T	he spilled product		
should be discarded.	-				
6.4. Reference to othe	er sections				
See sections 4, 7, 8, a	nd 13.				
SECTION 7: Handling					
7.1. Precautions for s	U				
	en handling Kjeldahl tal	blets. Use protective glo	oves, goggles and		
protective clothing.	6 1 1 1				
7.2. Conditions for safe storage, including any incompatibilities					
Kjeldahl tablets should	be stored dry in tightly	closed containers, sepa	arate from foodstuffs,		
Kjeldahl tablets should beverages and animal	be stored dry in tightly feedstocks.	closed containers, sepa			
Kjeldahl tablets should beverages and animal Storage class: 13 (non-	be stored dry in tightly feedstocks. -combustible solids) ac	closed containers, sepa			
Kjeldahl tablets should beverages and animal Storage class: 13 (non- substances in nonstation	be stored dry in tightly feedstocks. -combustible solids) ac onary containers), Ann	closed containers, sepa			
Kjeldahl tablets should beverages and animal Storage class: 13 (non- substances in nonstation 7.3. Specific end use	be stored dry in tightly feedstocks. -combustible solids) ac onary containers), Ann (s)	closed containers, sepa cording to TRGS 510 (S ex 4.			
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Kjeldahl tablets should beverages and animal Storage class: 13 (non- substances in nonstatio 7.3. Specific end use(For determination of ni SECTION 8: Exposure	be stored dry in tightly feedstocks. -combustible solids) ac onary containers), Ann (s) trogen by the Kjeldahl e controls/personal p	closed containers, sepa cording to TRGS 510 (S ex 4. method.			
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Kjeldahl tablets should beverages and animal Storage class: 13 (non- substances in nonstatio 7.3. Specific end use(For determination of ni SECTION 8: Exposure 8.1. Control paramete <i>Potassium sulfate:</i> General limit for dust (T Inhalable fraction (I dus Respirable fraction (R	be stored dry in tightly feedstocks. -combustible solids) ac onary containers), Ann (s) trogen by the Kjeldahl e controls/personal p ers TRGS 900 (Technical F st): 10 mg/m³ (TWA)	closed containers, sepa cording to TRGS 510 (S ex 4. method. rotection Rules for Hazardous Sul	Storage of hazardous		
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Kjeldahl tablets should beverages and animal Storage class: 13 (non- substances in nonstatio 7.3. Specific end use For determination of ni SECTION 8: Exposure 8.1. Control paramete <i>Potassium sulfate:</i> General limit for dust (Inhalable fraction (I dus Respirable fraction (I dus Respirable fraction (I dus Respirable fraction (I dus <i>Selenium:</i> OEL (TRGS 900): 0.05 resorptive substances) <i>Selenium and its inorga</i> BLV (TRGS 903): 150 DNEL (systemic) All figures are taken from Route Inhalation (Long term exposure) Dermal	be stored dry in tightly feedstocks. -combustible solids) ac onary containers), Ann (s) trogen by the Kjeldahl e controls/personal p ers TRGS 900 (Technical F st): 10 mg/m³ (TWA) dust): 1.25 mg/m³ (TWA) dust): 1.25 mg/m³ (TWA) dust): 1.25 mg/m³ (TWA) for mg/m³ inhalable fraction anic compounds: µg selenium/l (Specime m REACH registration do Substance potassium sulfate selenium potassium sulfate	closed containers, sepa cording to TRGS 510 (Sex 4. method. rotection Rules for Hazardous Sul A) on (Exceeding factor: 1 en: serum) ssiers for potassium sulfat Worker 37.6 mg/m³ 0.05 mg/m³ 21.3 mg/kg bw/day	Storage of hazardous bstances)): (II) with (II) for te and selenium. General population 11.1 mg/m³ 0.015 mg/m³ 12.8 mg/kg bw/day		

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PNEC		
All figures are taken from	n REACH registration dossiers for potassiu	Im sulfate and selenium.
Substance	potassium sulfate	selenium
Freshwater	0.68 mg/l	2.67 µg/l
Seawater	0.068 mg/l	2 µg/l
Sediment (Freshwater)	not sufficiently accurate data available	8.2 mg/kg Sediment dw
Sediment (Seawater)	not sufficiently accurate data available	6.2 mg/kg Sediment dw
Soil	not sufficiently accurate data available	0.044 mg/kg soil dw
· · · · · ·		<u> </u>

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

9.1. Information on basic physical and	
Property	Value/Description
Physical state	solid (tablets)
Weight	5.005 g
Colour	grey
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	not determined
рН	6.49 (at 50 g/l H ₂ O) at 20 °C
Kinematic viscosity	not applicable, since mixture of inorganic solids
Solubility	111 g/I H ₂ O at 20 °C (Residue of selenium)
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	2.66 g/cm ³ at 20 °C
Bulk density	1199 kg/m³ at 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.

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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 sulphur and selenium 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.
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 and selenium.
Acute oral toxicity
Potassium sulfate: LD ₅₀ (rat) > 2000 mg/kg bw (OECD Test guideline 425)
Selenium (powder form): LD ₅₀ (rat) > 5000 mg/kg bw (OECD Test guideline 401)
Acute dermal toxicity
Potassium sulfate: LD ₅₀ (rat) > 2000 mg/kg bw (OECD Test guideline 402)
Acute inhalation toxicity
Potassium sulfate: LC ₀ (rat): 3.6 mg/m ₃ /4h (OECD Test guideline 433 draft), read across to
Ammonium sulfate
Selenium powder (Aerosol): LC ₅₀ (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. 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

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11.1.9. Specific target organ	toxicity (repeated exposure)	1	
Not known			
11.1.10. Aspiration hazard Not known			
11.2. Information on other ha	azards		
There are no indications on oth			
SECTION 12: Ecological info	rmation		
12.1. Toxicity			
12.1.1. Acute aquatic toxicity	/		
All figures are taken from REA	CH registration dossiers for po	tassium sulfa	te and selenium.
Toxicity to fish Potassium sulfate			
LC ₅₀ (Pimephales promelas, 96	6 h): 680 ma/l (Test auidelines	EPA/600/4-90)/027 and
EPA/600/6-91/003)			
Selenium			
LC ₅₀ (Oncorhynchus mykiss, 9) Test guideline
203) Toxicity to daphnia	> 26.2 µg selenium/l (sol	lved)	
Potassium sulfate			
EC ₅₀ (Daphnia magna, 48 h): 7	20 mg/l (Test guidelines EPA/	600/4-90/027	and EPA/600/6-
91/003)			
Selenium		at avvidalina O	00)
EC ₅₀ (Daphnia magna, 48 h) > >	160,3 µg Selen/I (solved)	st guideline Z	02)
Toxicity to algae			
Potassium sulfate	0700 // / /		
EC ₅₀ (Chlorella vulgaris, 18 d): Selenium	2700 mg/l (read-across to Am	monium sulta	te)
ECr50 (Pseudokirchneriella sub	<i>capitata.</i> 72 h) > 1.73 µg selen	ium/l (solved)	(Growth rate)
(OECD Test guideline 201)		()	()
12.1.2. Chronic aquatic toxic			
All figures are taken from REA Selenium	CH registration dossier for sele	enium.	
NOEC (Oncorhynchus mykiss,	28 d > 10 mg selenium/l (nor	ninal) (OFCD	Test quideline
215)	≥ 1.57 µg selenium/l (sol		l oot guldonno
NOEC (Daphnia magna, 21 d)			
NOEC (<i>Pseudokirchneriella</i> su	<i>ıbcapitata,</i> 72 h): 0.547 μg sele	enium/l (solved	d) (Growth rate)
(OECD Test guideline 201) 12.2. Persistence and degrad	lability		
Selenium is not degraded in so		enriched by a	dsorption.
12.3. Bioaccumulative poten	tial	, ,	•
Selenium is not biodegradable	, it is accumulated in the soil.		
12.4. Mobility in soil	nobility due to its good colubilit	w in water	
Potassium sulfate has a high mobility due to its good solubility in water. Selenium is water-insoluble and is enriched in the soil and converted by a longer period of			
time due to oxidation in water-			.g-: p-:
12.5. Results of PBT and vPv	/B assessment		
Not applicable to inorganic sub			
12.6. Endocrine disrupting p The substances in the mixture		tablished in a	ccordance with

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article 59(1) for having endocrine disrupting properties. The substances are not iden having endocrine disrupting properties in accordance with the criteria set out in Con Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. I 2.7. Other adverse effects Not known	
SECTION 13: Disposal considerations	
Product residues and the packaging must be disposed in accordance with the Wast	
Directive 2008/98/EC and national and regional regulations.	le l
The revised list of waste pursuant to article 7 of the Directive was published with the	`
Commission's Decision 2014/955/EU.	5
Product	
Vaste key:	
06 03 14 (solid salts and solutions not containing cyanides or heavy metals)	
Packaging	
Contaminated packaging should be disposed of like the product.	
SECTION 14: Transport information	
Not hazardous substance according to the national and international dangerous goo	ods
egulations.	
SECTION 15: Regulatory information	
 5.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 5.1.1. EU regulations Safety Data Sheet: Regulation (EC) No 1907/2006 (REACH), Annex II (SDS) amended by Regulation (2020/878. Classification and labelling: Regulation (EC) No 1272/2008 (CLP (EU-GHS) Regulation) 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) nadmissible 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 on protection against hazardous substances (Hazardous Substances Regulation) 	or
GefStoffV))	n 000
Regulation on bans and restrictions on the marketing and delivery of certain substa	nces,
nixtures and products pursuant to the Chemicals Act (ChemVerbotsV)	of 18
nixtures and products pursuant to the Chemicals Act (ChemVerbotsV) Drdinance on facilities for handling substances that are hazardous to water (AwSV)	of 18
nixtures and products pursuant to the Chemicals Act (ChemVerbotsV) Ordinance on facilities for handling substances that are hazardous to water (AwSV) April 2017.	
nixtures and products pursuant to the Chemicals Act (ChemVerbotsV) Ordinance on facilities for handling substances that are hazardous to water (AwSV) April 2017. Potassium sulfate (identification number: 255, see database Rigoletto) - Water haza	
nixtures and products pursuant to the Chemicals Act (ChemVerbotsV) Ordinance on facilities for handling substances that are hazardous to water (AwSV) April 2017. Potassium sulfate (identification number: 255, see database Rigoletto) - Water haza WGK): 1 (slightly hazardous to water)	ard class
nixtures and products pursuant to the Chemicals Act (ChemVerbotsV) Ordinance on facilities for handling substances that are hazardous to water (AwSV) April 2017. Potassium sulfate (identification number: 255, see database Rigoletto) - Water haza WGK): 1 (slightly hazardous to water) Selenium (identification number: 2751, see database Rigoletto) - Water hazard clas	ard class
nixtures and products pursuant to the Chemicals Act (ChemVerbotsV) Ordinance on facilities for handling substances that are hazardous to water (AwSV) April 2017. Potassium sulfate (identification number: 255, see database Rigoletto) - Water haza WGK): 1 (slightly hazardous to water) Selenium (identification number: 2751, see database Rigoletto) - Water hazard clas WGK): 2 (obviously hazardous to water)	ard class
nixtures and products pursuant to the Chemicals Act (ChemVerbotsV) Ordinance on facilities for handling substances that are hazardous to water (AwSV) April 2017. Potassium sulfate (identification number: 255, see database Rigoletto) - Water haza WGK): 1 (slightly hazardous to water) Selenium (identification number: 2751, see database Rigoletto) - Water hazard clas	ard class s

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AF O. Ohami	45.0 Observiced Osfets Assessment			
15.2. Chemical Safety Assessment				
	For this product a chemical safety assessment was not created.			
	: Other information			
	ion of changes			
Subsection 1	0			
Subsection 2				
Subsection 9				
Subsection 1				
Subsection 1	2.6 new 5.1.1 update			
	•			
Subsection 1	I			
	statements according to Regulation (EC) No 1272/2008, the text was not			
H301 - Toxic	ed in section 3			
H331 - Toxic				
	cause damage to organs through prolonged or repeated exposure.			
	ause long lasting harmful effects to aquatic life. Jre and sources			
	nd Regulations EC) No 1907/2006 (REACH), was last amended by Regulation (EU) 2021/2204			
	S) Regulation (EC) No 1272/2008, was last amended by Regulation (EC)			
2021/1962				
	stration dossiers			
	Ilfate (REACH Registration No 01-2119489441-34)			
	EACH Registration No 01-2119981706-25)			
	viations and acronyms			
BLV	biological limit value			
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			
ECr	Effective Concentration (Growth rate)			
EN	European Standards			
EPA	Environmental Protection Agency			
EU	European Union			
GHS	Globally Harmonized System of Classification, Labelling and Packaging of			
	Chemicals			
LC	Lethal Concentration			
LD	Lethal Dose			
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			

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REACH Regulation, Evaluation and Authorization of Chemicals

TRGS Technical Rules for Hazardous Substances

TWA Time-Weighted Average

vPvB very persistent and very bioaccumulative

16.5. 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.