



## SAFETY DATA SHEET

### Kjeltabs KW

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

##### 1.1. Product identifier

Product name Kjeltabs KW

Product number AA52

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

Identified uses Catalyst.

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

Supplier Thompson and Capper  
Hardwick Road  
Astmoor Industrial Estate  
Runcorn  
Cheshire  
WA7 1PH  
T:+44(0)1928 573734  
F:+44(0)1928 580694  
enquiries@thompsonandcapper.com

##### 1.4. Emergency telephone number

Emergency telephone +44(0)1928 573734 (0800 - 1700)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Eye Irrit. 2 - H319

Environmental hazards Aquatic Chronic 3 - H412

##### 2.2. Label elements

###### Hazard pictograms



Signal word Warning

Hazard statements  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

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### Precautionary statements

P264 Wash contaminated skin thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 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.  
 P501 Dispose of contents/ container in accordance with national regulations.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Potassium sulphate</b>			<b>98%</b>
CAS number: 7778-80-5	EC number: 231-915-5	REACH registration number: 01-2119489441-34	
<b>Classification</b> Not Classified			

<b>Copper Sulphate Pentahydrate</b>			<b>1.5%</b>
CAS number: 7758-99-8	EC number: 231-847-6	REACH registration number: 05-2114719065-53-0000	
M factor (Acute) = 10	M factor (Chronic) = 1		
<b>Classification</b> Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410			

<b>SELENIUM</b>			<b>1.0%</b>
CAS number: 7782-49-2	EC number: 231-957-4	REACH registration number: 05-2114099336-39-000	
<b>Classification</b> Acute Tox. 3 - H301 Acute Tox. 3 - H331 STOT RE 2 - H373 Aquatic Chronic 4 - H413			

The full text for all hazard statements is displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove affected person from source of contamination. Remove contaminated clothing. Get medical attention if any discomfort continues. Place unconscious person on the side in the recovery position and ensure breathing can take place.

#### Inhalation

Remove affected person from source of contamination. Move affected person to fresh air at once. Get medical attention. If breathing stops, provide artificial respiration.

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<b>Ingestion</b>	Get medical attention. Show this Safety Data Sheet to the medical personnel.
<b>Skin contact</b>	Wash skin thoroughly with soap and water.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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### **4.3. Indication of any immediate medical attention and special treatment needed**

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Extinguish with the following media: Dry chemicals, sand, dolomite etc.
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### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards</b>	Forms explosive mixtures with air.
<b>Hazardous combustion products</b>	When heated, vapours/gases hazardous to health may be formed.

### **5.3. Advice for firefighters**

<b>Protective actions during firefighting</b>	If risk of water pollution occurs, notify appropriate authorities.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid generation and spreading of dust. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.
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### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Do not discharge into drains or watercourses or onto the ground.
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### **6.3. Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Collect and place in suitable waste disposal containers and seal securely.
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### **6.4. Reference to other sections**

<b>Reference to other sections</b>	Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.
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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

<b>Usage precautions</b>	Mechanical ventilation or local exhaust ventilation may be required. Avoid generation and spreading of dust.
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### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry and cool place. Do not store near heat sources or expose to high temperatures.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### SELENIUM

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit.

**Ingredient comments** No exposure limits known for ingredient(s).

#### Copper Sulphate Pentahydrate (CAS: 7758-99-8)

**Ingredient comments** No exposure limits known for ingredient(s).

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Dust-resistant, chemical splash goggles.

#### Hand protection

It is recommended that gloves are made of the following material: Neoprene.

#### Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash at the end of each work shift and before eating, smoking and using the toilet. Contaminated clothing should be placed in a closed container for disposal or decontamination.

#### Respiratory protection

Wear a respirator fitted with the following cartridge: Particulate filter, type P3.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance** Tablet

**Colour** Grey.

**Odour** Odourless.

**Solubility(ies)** Soluble in water.

### 9.2. Other information

**Other information** Not known.

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Strong reducing agents.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not known.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat.

#### 10.5. Incompatible materials

**Materials to avoid** Strong reducing agents.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Not known.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 7,692.31

##### Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 50.0

#### Toxicological information on ingredients.

##### Copper Sulphate Pentahydrate

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,000.0

##### SELENIUM

##### Acute toxicity - oral

ATE oral (mg/kg) 100.0

##### Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 0.5

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Acute aquatic toxicity

**Acute toxicity - fish** LC50, 96 hours: 1 mg/l, Pimephales promelas (Fat-head Minnow)  
LC<sub>50</sub>, 96 hours: 1 mg/l, Fish

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<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.43 mg/l, Daphnia magna EC <sub>50</sub> , 48 hours: 0.43 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: > 100 mg/l, Selenastrum capricornutum IC <sub>50</sub> , 72 hours: 99 mg/l, Algae

### Ecological information on ingredients.

#### Potassium sulphate

##### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 3550 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 890 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	IC <sub>50</sub> , 72 hours: 2900 mg/l, Algae

#### Copper Sulphate Pentahydrate

<b>Toxicity</b>	Very toxic to aquatic organisms.
<b><u>Acute aquatic toxicity</u></b>	
<b>LE(C)<sub>50</sub></b>	0.01 < L(E)C <sub>50</sub> ≤ 0.1
<b>M factor (Acute)</b>	10
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , : 0.7 mg/l, Lepomis macrochirus (Bluegill) LC <sub>50</sub> , : 0.6 mg/l, Pimephales promelas (Fat-head Minnow) LC <sub>50</sub> , 96 hours: 0.6 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.024 mg/l, Daphnia magna
<b><u>Chronic aquatic toxicity</u></b>	
<b>M factor (Chronic)</b>	1

#### SELENIUM

##### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 1 mg/l, Pimephales promelas (Fat-head Minnow) LC <sub>50</sub> , 96 hours: 1 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.43 mg/l, Daphnia magna EC <sub>50</sub> , 48 hours: 0.43 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: > 100 mg/l, Selenastrum capricornutum IC <sub>50</sub> , 72 hours: 99 mg/l, Algae

### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

### Ecological information on ingredients.

#### Potassium sulphate

<b>Persistence and degradability</b>	There are no data on the degradability of this product.
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### Copper Sulphate Pentahydrate

#### Persistence and degradability

There are no data on the degradability of this product.

### SELENIUM

#### Persistence and degradability

There are no data on the degradability of this product.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### Ecological information on ingredients.

#### Potassium sulphate

**Bioaccumulative potential** No data available on bioaccumulation.

### Copper Sulphate Pentahydrate

**Bioaccumulative potential** No data available on bioaccumulation.

### SELENIUM

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

**Mobility** No data available.

### Ecological information on ingredients.

#### Potassium sulphate

**Mobility** The product is miscible with water and may spread in water systems.

### Copper Sulphate Pentahydrate

**Mobility** No data available.

### SELENIUM

**Mobility** No data available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

#### Potassium sulphate

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Copper Sulphate Pentahydrate

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### Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

### SELENIUM

### Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

#### Other adverse effects

The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### Ecological information on ingredients.

### Potassium sulphate

#### Other adverse effects

Not determined.

### SELENIUM

#### Other adverse effects

The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to

Annex II of MARPOL 73/78  
and the IBC Code

Not applicable.

## SECTION 15: Regulatory information



## Kjeltabs KW

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Revision date</b>	18/11/2022
<b>Revision</b>	8
<b>Hazard statements in full</b>	H301 Toxic if swallowed. H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.

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