## **Kjeltabs CX**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878



Date of issue: 09 January 2024 Version 13.0

#### 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 **Product identifier** 

> Product name Kjeltabs CX Product code **AA 16** Unique Formula Identifier (UFI) Not available

Nanoform The product does not contain nanoparticles.

1.2 Relevant identified uses of the substance or mixture

and uses advised against

Identified Use(s) Catalyst

Uses advised against Anything other than the above.

1.3 Details of the supplier of the safety data sheet

Company Identification

Thompson and Capper Hardwick Road Astmoor Industrial Estate

Runcorn Cheshire WA7 1PH

Fax +44(0)1928 580694 Telephone +44(0)1928 573734

E-mail (competent person) enquiries@thompsonandcapper.com

1.4 **Emergency telephone number** 

> Emergency Phone No. +44(0)1928 573734 (08:00 - 17:00)

Language(s) spoken: English

#### 2. **SECTION 2: HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Eye Dam. 1; H318

Aquatic Acute 1; H400 Aquatic Chronic 2; H411

2.2 Label elements

> Product name Kjeltabs CX

Contains: Copper Sulfate Pentahydrate

Hazard Pictogram(s)



**DANGER** 



Signal Word(s)

Hazard Statement(s) H318: Causes serious eye damage.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s) P273: Avoid release to the environment.

> P280: Wear protective gloves/protective clothing and eye/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

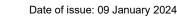
Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

P391: Collect spillage.

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P501: Dispose of contents/container to hazardous or special waste collection

point.

Supplemental information Not applicable.

2.3 Other hazards This mixture does not contain any substance considered to be PBT or vPvB.

### 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances - Not applicable

### 3.2 Mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Copper Sulfate Pentahydrate	8 – 9.5	7758-99-8	231-847-6	05- 2114719065-53-0000	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

### Specific concentration limit (SCL) & M-factor

Chemical identity of the substance	CAS No.	EC No.	Specific concentration limit (SCL)	M-factor
Copper Sulfate Pentahydrate	7758-99-8	231-847-6	-	M (acute) = 10 M (chronic) = 1

Note: For full text of H phrases see section 16.

### 4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures Self-protection of the first aider

Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation Do not breathe dust. Avoid contact with skin and eyes. Contaminated clothing should be

laundered before reuse.

inhalation Remove affected person from the danger area and lay down. If breathing is

difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing. Seek medical advice.

IF ON SKIN: Gently wash with plenty of soap and water. Remove clothing and

wash thoroughly before use. Wash affected skin with soap and water. If skin

irritation or rash occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get

ienses, ii present and easy to do. Continue finsing. IF exposed of concerned. Go

medical advice/attention.

Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If unconscious place in recovery

position and seek medical advice.

4.2 Most important symptoms and effects, both acute

and delayed

Skin contact

Eye contact

Ingestion

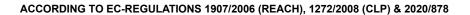
Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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#### 5. **SECTION 5: FIREFIGHTING MEASURES**

5.1 **Extinguishing media** 

> Suitable extinguishing media As appropriate for surrounding fire. Unsuitable extinguishing media Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or

mixture

Product is not classified as flammable, but will burn on contact with flame or exposure to high temperature. On overheating or burning: release of toxic and corrosive gases/vapours. Decomposition products: Oxides of carbon, Oxides of

sulfur, Copper oxides.

Advice for firefighters Fight fire with normal precautions from a reasonable distance. Fire fighters should 5.3 wear complete protective clothing including self-contained breathing apparatus.

Keep containers cool by spraying with water if exposed to fire. Avoid run off to

waterways and sewers.

#### 6. **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and

emergency procedures

**Environmental precautions** 

6.3 Methods and material for containment and cleaning up

6.4 Reference to other sections

6.2

7.3

Caution - spillages may be slippery. Eliminate sources of ignition. Only allow access to authorised persons. Shut off leaks if without risk. Avoid dust generation. Do not breathe dust. Do not ingest. Avoid contact with skin and eyes. Ensure adequate ventilation. Contaminated clothing should be thoroughly cleaned.

Avoid release to the environment. Do not allow to enter drains, sewers or

watercourses.

Provided it is safe to do so, isolate the source of the leak. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for

disposal. Wash the spillage area with water. See Section: 8,13

#### **SECTION 7: HANDLING AND STORAGE** 7.

7.1 Precautions for safe handling Ensure adequate ventilation. When using do not eat or drink. Avoid dust

> generation. Do not breathe dust. Use personal protective equipment as required. Keep good industrial hygiene. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after

> Keep container tightly closed. Keep container dry. Keep away from moisture.

work. Contaminated clothing should be thoroughly cleaned.

7.2 Conditions for safe storage, including any

incompatibilities

storage temperature Incompatible materials Specific end use(s)

Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep away from moisture.

Keep cool. Protect from sunlight. Powdered metals, Magnesium.

See Section: 1.2

#### 8. **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 Control parameters

8.1.1 Occupational exposure limits Not established

8.1.2 **Biological Limit Value** Not established

**PNECs and DNELs** 8.1.3 Not established

8.2 **Exposure controls** 

Appropriate engineering controls 8.2.1

Ensure adequate ventilation. Keep good industrial hygiene. Store in a cool/lowtemperature, well-ventilated (dry) place away from heat and ignition sources. Guarantee that the eye flushing systems and safety showers are located close to

the working place.

8.2.2 Individual protection measures, such as personal

protective equipment

Keep good industrial hygiene. Wear appropriate personal protective equipment, avoid direct contact. Keep work clothes separately. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke at the work place.

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Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye / face protection

Use eye protection according to EN 166, designed to protect against dusts.



Skin protection



Wear suitable chemical resistant protective gloves for frequent or prolonged operations tested to EN374 with an acceptable permeation test. Contaminated gloves should be carefully rinsed with water before reuse.

Breakthrough time of the glove material: refer to the information provided by the

gloves' producer.

Respiratory protection



Respiratory protection is not necessary if room is well ventilated. In case of inadequate ventilation wear respiratory protection.

An approved dust mask should be worn if dust is generated during handling. A suitable dust mask or dust respirator with filter type P may be appropriate.

Thermal hazards Not applicable

8.2.3 **Environmental exposure controls** Avoid release to the environment.

#### 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state **Tablets** Blue-Speckled Colour Odour Odourless Melting point/freezing point Not available Boiling point or initial boiling point and boiling range Not available Flammability Non-flammable. Lower and upper explosion limit Not available Not available Flash point Auto-ignition temperature Not available Not available Decomposition temperature рΗ Not applicable Kinematic viscosity Not applicable Solubility Soluble in water. Not available Partition coefficient: n-octanol/water (log value) Not available Vapour pressure Density and/or relative density Not available Relative vapour density Not available Particle characteristics Not available

9.2 Other information None Known.

#### 10. **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity Stable under recommended storage and handling conditions. 10.2 Chemical stability Stable under recommended storage and handling conditions. Possibility of hazardous reactions 10.3 Will not occur under normal conditions of storage and use

10.4 Conditions to avoid Heat, water and moisture. 10.5 Incompatible materials Powdered metals, Magnesium.

10.6 Hazardous decomposition products Release of toxic and corrosive gases/vapours, Oxides of carbon, Oxides of

sulfur, Copper oxides.

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#### 11. **SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 Information on hazard classes as defined in

Regulation (EC) No 1272/2008

**Acute toxicity - Ingestion** 

Acute toxicity - inhalation

Acute toxicity - Skin contact

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT - single exposure STOT - repeated exposure

Aspiration hazard

11.2 Information on other hazards 11.2.1 Endocrine disrupting properties

11.2.2 Other information Mixture: Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw

Mixture: Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: LC50 >5 mg/l (Dust/Mist) Mixture: Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw

Mixture: Based upon the available data, the classification criteria are not met.

Mixture: Eye Dam. 1: H318: Causes serious eye damage.

Copper sulphate pentahydrate Eye Dam. 1: H318: Causes serious eye damage.

Severe/very severe irritant to rabbit eyes. (Unnamed publication 1994)

Mixture: Based upon the available data, the classification criteria are not met. Mixture: Based upon the available data, the classification criteria are not met. Mixture: Based upon the available data, the classification criteria are not met. Mixture: Based upon the available data, the classification criteria are not met. Mixture: Based upon the available data, the classification criteria are not met. Mixture: Based upon the available data, the classification criteria are not met.

Mixture: Based upon the available data, the classification criteria are not met.

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

None Known.

#### **SECTION 12: ECOLOGICAL INFORMATION** 12.

12.1 **Toxicity** Mixture: Aquatic Acute 1; H400: Very toxic to aquatic life.

Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects.

Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.

Estimated LC50, : 0.7 mg/l, Lepomis macrochirus (Bluegill) LC50, : 0.6 mg/l, Pimephales promelas (fathead minnow)

LC<sub>50</sub>, 96 hours: 0.6 mg/l, (Fish)

EC<sub>50</sub>, 48 hours: 0.024 mg/l, (Daphnia magna)

Copper sulphate pentahydrate Aquatic Acute 1; H400: Very toxic to aquatic life.

NOEC (µg Cu/l): 10-20

12.2 No data for the mixture as a whole. Persistence and degradability

> No information available. Copper sulphate pentahydrate

12.3 Bioaccumulative potential No data for the mixture as a whole.

Copper sulphate pentahydrate No information available.

12.4 Mobility in soil

The product is miscible with water. May spread in water systems. Copper sulphate pentahydrate No information available.

Results of PBT and vPvB assessment 12.5

Not classified as PBT or vPvB.

12.6 **Endocrine disrupting properties** This product does not contain a substance that has endocrine disrupting

properties with respect to non-target organisms as no components meets the

criteria.

12.7 Other adverse effects None Known.

#### **SECTION 13: DISPOSAL CONSIDERATIONS** 13.

13.1 Waste treatment methods Disposal should be in accordance with local, state or national legislation.

Dispose of contents/container to hazardous waste collection point. Do not allow

to enter drains, sewers or watercourses.

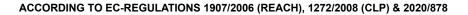
Waste classification according to Directive 2008/98/EC

(Waste Framework Directive)

HP4 Irritant — skin irritation and eye damage

HP14 Ecotoxic

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### 14. SECTION 14: TRANSPORT INFORMATION

		ADR/RID	ADN	IMDG	IATA/ICAO
14.1	UN number or ID number	3077	3077	3077	3077
14.2	UN proper shipping name	ENVIRONMENTA	ENVIRONMENTA	ENVIRONMENTA	ENVIRONMENTAL
		LLY HAZARDOUS	LLY	LLY	LY HAZARDOUS
		SUBSTANCE,	HAZARDOUS	HAZARDOUS	SUBSTANCE,
		SOLID, N.O.S.	SUBSTANCE,	SUBSTANCE,	SOLID, N.O.S.
		(Contains: Copper	SOLID, N.O.S.	SOLID, N.O.S.	(Contains: Copper
		Sulphate	(Contains: Copper	(Contains: Copper	Sulphate
		Pentahydrate)	Sulphate	Sulphate	Pentahydrate)
			Pentahydrate)	Pentahydrate)	
14.3	Transport hazard class(es)	9	9	9	9
14.4	Packing group	III	III	III	III
14.5	Environmental hazards	Classified as a	Classified as a	Classified as a	Classified as a
		Marine Pollutant.	Marine Pollutant.	Marine Pollutant.	Marine Pollutant.
14.6	Special precautions for user	See Section: 2			
14.7	Maritime transport in bulk according to IMO	No information	No information	No information	No information
	instruments	available.	available.	available.	available.
14.8	Additional information				
	Special Provisions	274, 335 ,375, 601		274, 335, 966,	
				967, 969	
	Limited Quantity	5 kg		5 kg	
	Transport category	3			
	Tunnel restriction code	(-)			
	EmS			F-A, S-F	

### 15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental

regulations/legislation specific for the substance or mixture

15.1.1 EU regulations

Authorisations and/or restrictions on use

Use restriction according to REACH annex XVII, no.: Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-

Directive]

Not restricted

Copper sulphate pentahydrate: Annex I - Part 1 (Categories of dangerous

substances)

15.1.2 National regulations

Germany

15.2

**Chemical Safety Assessment** 

Water hazard class (WGK): Strongly hazardous to water (wgk 3) A REACH chemical safety assessment has not been carried out.

## 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care. – V13.0

References: Existing Safety Data Sheet (SDS), Existing ECHA registration(s) for substances.

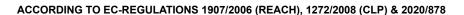
EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification procedure
Eye Dam. 1; H318	Additivity method
Aquatic Acute 1; H400	Summation Calculation
Aquatic Chronic 2; H411	Summation Calculation

Legend

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

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ADN ADN: European Agreement on the International Transport of Dangerous Goods by Inland Waterways
CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

DNEL Derived no effect level

IATA IATA: International Air Transport Association
ICAO ICAO: International Civil Aviation Organization
IMDG IMDG: International Maritime Dangerous Goods

LTEL Long term exposure limit

PBT PBT: Persistent, Bioaccumulative and Toxic

PNEC Predicted No Effect Concentration

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Regulations concerning the international railway transport of dangerous goods

STEL Short term exposure limit

vPvB vPvB: very Persistent and very Bioaccumulative

Hazard classification / Classification code:

Acute Tox. 4; Acute toxicity, Category 4 Eye Dam. 1; 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

Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic,

Category 2

Hazard Statement(s)

H302: Harmful if swallowed.

H318: Causes serious eye damage.

H400: Very toxic to aquatic life.

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

H411: Toxic to aquatic life with long lasting effects.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

### **Disclaimers**

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## Annex to the extended Safety Data Sheet (eSDS)

Exposure scenarios for substances in this preparation are not available.

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