

SAFETY DATA SHEET



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)

Signal Word(s) DANGER
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.

SAFETY DATA SHEET



Kjeltabs CX

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

Date of issue: 09 January 2024
Version 13.0

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

Inhalation

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.

Skin contact

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.

Eye contact

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.

Ingestion

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 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

Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SAFETY DATA SHEET



Kjeltabs CX

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

Date of issue: 09 January 2024
Version 13.0

5. SECTION 5: FIREFIGHTING MEASURES

- | | |
|--|--|
| 5.1 Extinguishing media
Suitable extinguishing media
Unsuitable extinguishing media | As appropriate for surrounding fire.
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. |
| 5.3 Advice for firefighters | Fight fire with normal precautions from a reasonable distance. Fire fighters should 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 | 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. |
| 6.2 Environmental precautions | Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. |
| 6.3 Methods and material for containment and cleaning up | 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. |
| 6.4 Reference to other sections | See Section: 8,13 |

7. SECTION 7: HANDLING AND STORAGE

- | | |
|--|---|
| 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 work. Contaminated clothing should be thoroughly cleaned. |
| 7.2 Conditions for safe storage, including any incompatibilities

storage temperature
Incompatible materials | Keep container tightly closed. Keep container dry. Keep away from moisture. 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. |
| 7.3 Specific end use(s) | 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 |
| 8.1.3 PNECs and DNELs | Not established |
| 8.2 Exposure controls | |
| 8.2.1 Appropriate engineering controls | Ensure adequate ventilation. Keep good industrial hygiene. Store in a cool/low-temperature, 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. |

SAFETY DATA SHEET



Kjeltabs CX

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

Date of issue: 09 January 2024
Version 13.0

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
Colour	Blue- Speckled
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
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not applicable
Kinematic viscosity	Not applicable
Solubility	Soluble in water.
Partition coefficient: n-octanol/water (log value)	Not available
Vapour pressure	Not available
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.
10.3 Possibility of hazardous reactions	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.

SAFETY DATA SHEET



Kjeltabs CX

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

Date of issue: 09 January 2024
Version 13.0

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Ingestion

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

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

Acute toxicity - inhalation

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

Acute Toxicity Estimate Mixture Calculation: LC50 >5 mg/l (Dust/Mist)

Acute toxicity - Skin contact

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

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

Skin corrosion/irritation

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

Serious eye damage/irritation

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)

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT - single exposure

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

STOT - repeated exposure

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

Aspiration hazard

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

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

11.2.2 Other information

None Known.

12. SECTION 12: ECOLOGICAL INFORMATION

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.

Estimated LC50, : 0.7 mg/l, *Lepomis macrochirus* (Bluegill)

LC50, : 0.6 mg/l, *Pimephales promelas* (fathead minnow)

LC₅₀, 96 hours: 0.6 mg/l, (Fish)

EC₅₀, 48 hours: 0.024 mg/l, (*Daphnia magna*)

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

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

NOEC (µg Cu/l): 10-20

12.2 Persistence and degradability

No data for the mixture as a whole.

Copper sulphate pentahydrate No information available.

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.

12.5 Results of PBT and vPvB assessment

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.

13. SECTION 13: DISPOSAL CONSIDERATIONS

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

SAFETY DATA SHEET



Kjeltabs CX

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

Date of issue: 09 January 2024
Version 13.0

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	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains: Copper Sulphate Pentahydrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains: Copper Sulphate Pentahydrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains: Copper Sulphate Pentahydrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains: Copper Sulphate 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 Marine Pollutant.	Classified as a Marine Pollutant.	Classified as a Marine Pollutant.	Classified as a Marine Pollutant.
14.6 Special precautions for user	See Section: 2			
14.7 Maritime transport in bulk according to IMO instruments	No information available.	No information available.	No information available.	No information available.
14.8 Additional information	Special Provisions 274, 335, 375, 601 Limited Quantity 5 kg Transport category 3 Tunnel restriction code (-) EmS		274, 335, 966, 967, 969 5 kg 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	Water hazard class (WGK): Strongly hazardous to water (wgk 3)
15.2 Chemical Safety Assessment	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

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

SAFETY DATA SHEET



Kjeltabs CX

Date of issue: 09 January 2024
Version 13.0

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

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	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

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Thompson and Capper gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Thompson and Capper accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

Annex to the extended Safety Data Sheet (eSDS)

Exposure scenarios for substances in this preparation are not available.