



SAFETY DATA SHEET

Kjeltabs CX

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

1.1. Product identifier

Product name Kjeltabs CX

Product number AA16

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 Not Classified

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements H400 Very toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements P273 Avoid release to the environment.
 P391 Collect spillage.
 P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Potassium sulphate		90.9%
CAS number: 7778-80-5	EC number: 231-915-5	REACH registration number: 01-2119489441-34

Classification

Not Classified

Copper Sulphate Pentahydrate		9.1%
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

Classification

Acute Tox. 4 - H302

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

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	Get medical attention if any discomfort continues.
Inhalation	Move affected person to fresh air at once. If breathing stops, provide artificial respiration. Consult a physician for specific advice.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

General information	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

Notes for the doctor	No data available.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Oxides of: Copper. Sulphur.

5.3. Advice for firefighters

Protective actions during firefighting 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

Personal precautions Avoid inhalation of dust and vapours. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Avoid generation and spreading of dust. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with skin and eyes. Avoid generation and spreading of dust. Use mechanical ventilation if there is a risk of handling causing formation of airborne dust.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool place.

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

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.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

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Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.
Hygiene measures	Provide eyewash station. Wash hands after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Tablet
Colour	Blue speckled
Odour	Odourless.
Solubility(ies)	Soluble in water.

9.2. Other information

Other information	Not available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No data available.
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10.2. Chemical stability

Stability	No data available.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No data available.
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10.4. Conditions to avoid

Conditions to avoid	Avoid contact with water.
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10.5. Incompatible materials

Materials to avoid	Powdered metal. Magnesium.
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10.6. Hazardous decomposition products

Hazardous decomposition products	No data available.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)	5,494.51
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Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg)	2,000.0
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Toxicological information on ingredients.

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Copper Sulphate Pentahydrate

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0 mg/kg)

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity	Very toxic to aquatic organisms.
Acute toxicity - fish	LC50, : 0.7 mg/l, Lepomis macrochirus (Bluegill) LC50, : 0.6 mg/l, Pimephales promelas (Fat-head Minnow) LC ₅₀ , 96 hours: 0.6 mg/l, Algae
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.024 mg/l, Daphnia magna

Ecological information on ingredients.

Potassium sulphate

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

Copper Sulphate Pentahydrate

Toxicity	Very toxic to aquatic organisms.
<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.01 < L(E)C50 ≤ 0.1
M factor (Acute)	10
Acute toxicity - fish	LC50, : 0.7 mg/l, Lepomis macrochirus (Bluegill) LC50, : 0.6 mg/l, Pimephales promelas (Fat-head Minnow) LC ₅₀ , 96 hours: 0.6 mg/l, Algae
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.024 mg/l, Daphnia magna
<u>Chronic aquatic toxicity</u>	
NOEC	0.01 < NOEC ≤ 0.1
Degradability	Non-rapidly degradable
M factor (Chronic)	1

12.2. Persistence and degradability

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

Ecological information on ingredients.

Potassium sulphate

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

Copper Sulphate Pentahydrate

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.

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.

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

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

12.6. Other adverse effects

Ecological information on ingredients.

Potassium sulphate

Other adverse effects Not determined.

SECTION 13: Disposal considerations

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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

UN No. (ADR/RID)	3077
UN No. (IMDG)	3077
UN No. (ICAO)	3077

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	Environmentally Hazardous Substance, Solid, NOS (contains Copper Sulphate Pentahydrate)
Proper shipping name (IMDG)	Environmentally Hazardous Substance, Solid, NOS (contains Copper Sulphate Pentahydrate)
Proper shipping name (ICAO)	Environmentally Hazardous Substance, Solid, NOS (contains Copper Sulphate Pentahydrate)
Proper shipping name (ADN)	Environmentally Hazardous Substance, Solid, NOS (contains Copper Sulphate Pentahydrate)

14.3. Transport hazard class(es)

ADR/RID class	9
IMDG class	9
ICAO class/division	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

Tunnel restriction code (E)

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.

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SECTION 15: Regulatory information

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).
Dangerous Preparations Directive 1999/45/EC.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date 09/07/2018

Revision 10

Hazard statements in full H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
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.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.