

## KALEX CU

Safety Data Sheet dated 24/1/2013, version 1

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

1.1. Product identifier

Mixture identification:  
Trade name: KALEX CU  
Trade code: 181500

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

Recommended use:

Professional use.

Fertilizer for agricultural use

1.3. Details of the supplier of the safety data sheet

Company:  
ALBA MILAGRO International spa  
Via F. Corridoni 19 20015 Parabiago (MI) Italy  
ph +39 0522 972374

Competent person responsible for the safety data sheet:

info@albamilagro.com

1.4. Emergency telephone number

ph +39 0522 972374

### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

This product is not a hazardous article and need not be labelled according to EC Directive 67/548, 99/45 as amended.

EC regulation criteria 1272/2008 (CLP):

The mixture is not classified as dangerous according to EC Regulation 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Special Provisions:

Safety data sheet available for professional user on request.

Symbols:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

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None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

### SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

30% - 40% Copper phosphide

CAS: 12643-19-5, EC: 234-647-7  
R53

10% - 12.5% Acido citrico

REACH No.: 01-2119457026-42, CAS: 5949-29-1, EC: 201-069-1  
Xi; R36



3.3/2 Eye Irrit. 2 H319

### SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

4.3. Indication of any immediate medical attention and special treatment needed

Treatment:

None

### SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

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Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures  
Wear personal protection equipment.  
Remove persons to safety.  
See protective measures under point 7 and 8.
- 6.2. Environmental precautions  
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up  
Wash with plenty of water.
- 6.4. Reference to other sections  
See also section 8 and 13

## SECTION 7: Handling and storage

- 7.1. Precautions for safe handling  
Avoid contact with skin and eyes, inhalation of vapours and mists.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities  
Keep away from food, drink and feed.  
Incompatible materials:  
None in particular.  
Instructions as regards storage premises:  
Adequately ventilated premises.
- 7.3. Specific end use(s)  
None in particular

## SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters  
No occupational exposure limit available  
DNEL Exposure Limit Values  
N.A.  
PNEC Exposure Limit Values  
N.A.
- 8.2. Exposure controls  
Eye protection:  
Not needed for normal use. Anyway, operate according good working practices.  
Protection for skin:  
No special precaution must be adopted for normal use.  
Protection for hands:  
Not needed for normal use.  
Respiratory protection:  
Not needed for normal use.  
Thermal Hazards:  
None

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Environmental exposure controls:  
None

## SECTION 9: Physical and chemical properties

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

Appearance and colour: Viscous liquid  
Odour: Typical  
Odour threshold: Not Relevant  
pH: 5 +/- 0.5  
Melting point / freezing point: n.d.  
Initial boiling point and boiling range: n.d.  
Solid/gas flammability: Not Relevant  
Upper/lower flammability or explosive limits: Not Relevant  
Vapour density: n.d.  
Flash point: N.A.  
Evaporation rate: n.d.  
Vapour pressure: n.d.  
Relative density: 1.450 +/- 10 kg/L  
Solubility in water: completely miscible  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: Not Relevant  
Decomposition temperature: n.d.  
Viscosity: n.d.  
Explosive properties: Not Relevant  
Oxidizing properties: n.d.

### 9.2. Other information

Miscibility: n.d.  
Fat Solubility: n.d.  
Conductivity: n.d.  
Substance Groups relevant properties: N.A.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

None in particular.

### 10.6. Hazardous decomposition products

None.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the mixture:  
N.A.

Toxicological information of the main substances found in the mixture:

Copper phosphide - CAS: 12643-19-5  
a) acute toxicity:

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Test: LD50 - Route: Oral - Species: Rat > 10 mg/kg - Source: GTPZAB Gigiena Truda Moscow - Notes: MTPEEI 31(9),24,1987

Test: LD50 - Route: Oral - Species: Rat > 10 mg/kg - Source: GTPZAB Gigiena Truda Moscow - Notes: MTPEEI 31(9),24,1987

Acido citrico - CAS: 5949-29-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 11700 mg/kg

Test: LD50 - Route: Oral - Species: Mouse = 5400 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Acido citrico - CAS: 5949-29-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 440 mg/l - Duration h: 48 - Notes: Leuciscus idus melanotus

Endpoint: LC50 - Species: N.A. = 1535 mg/l - Duration h: 24 - Notes: Daphnia magna

Endpoint: LC50 - Species: Algae = 425 mg/l - Duration h: 168 - Notes: Scenedesmus quadricauda

### 12.2. Persistence and degradability

None

N.A.

### 12.3. Bioaccumulative potential

N.A.

### 12.4. Mobility in soil

N.A.

### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

### 12.6. Other adverse effects

None

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

## SECTION 14: Transport information

### 14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

### 14.2. UN proper shipping name

N.A.

### 14.3. Transport hazard class(es)

N.A.

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- 14.4. Packing group  
N.A.
- 14.5. Environmental hazards  
N.A.
- 14.6. Special precautions for user  
N.A.
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
N.A.

## SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)  
Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Dir. 2006/8/EC  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP)  
Regulation (EU) n. 453/2010 (Annex I)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.  
Regulation (EC) nr 648/2004 (detergents).  
1999/13/EC (VOC directive)

- 15.2. Chemical safety assessment  
No

## SECTION 16: Other information

Text of phrases referred to under heading 3:

R36 Irritating to eyes.  
R53 May cause long-term adverse effects in the aquatic environment.  
H319 Causes serious eye irritation.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities  
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold  
CCNL - Appendix 1  
Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

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

CAS:Chemical Abstracts Service (division of the American Chemical Society).

CLP:Classification, Labeling, Packaging.

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DNEL:Derived No Effect Level.

EINECS:European Inventory of Existing Commercial Chemical Substances.

GefStoffVO:Ordinance on Hazardous Substances, Germany.

GHS:Globally Harmonized System of Classification and Labeling of Chemicals.

IATA:International Air Transport Association.

IATA-DGR:Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO:International Civil Aviation Organization.

ICAO-TI:Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG:International Maritime Code for Dangerous Goods.

INCI:International Nomenclature of Cosmetic Ingredients.

KSt:Explosion coefficient.

LC50:Lethal concentration, for 50 percent of test population.

LD50:Lethal dose, for 50 percent of test population.

LTE:Long-term exposure.

PNEC:Predicted No Effect Concentration.

RID:Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE:Short-term exposure.

STEL:Short Term Exposure limit.

STOT:Specific Target Organ Toxicity.

TLV:Threshold Limiting Value.

TWATLV:Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

WGK:German Water Hazard Class.

N.A.:N.A.

N.D.: