

## Material Safety Data Sheet

### \* SECTION 1: Identification of the substance/mixture

#### 1.1 Product identifier

**Trade name:** KAPANOX BC-30

**Product Variant:** KAPANOX BC-30 RSPO MB

**Chemical Identification:** • INCI: Cocoamidopropyl Betaine

**1.2 Relevant identified uses of the substance or mixture and uses advised against Industrial use**  
**Application of the substance / the mixture:** Surface active agent

### \* SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation EC No 1272/2008 CLP:**



GHS05 corrosion

Eye Dam. 1      H318 Causes serious eye damage.

Aquatic Chronic 3   H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

**Labelling according to Regulation EC No 1272/2008 CLP:**

The product is classified and labelled according to the CLP regulation.

## Hazard pictograms:



GHS05

**Signal word:** Danger

### Hazard-determining components of labelling:

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

### Hazard statements:

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear 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.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Regulation (EC) No 648/2004 on detergents / Labelling for contents

amphoteric surfactants

≥30%

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

Easily biodegradable, (calculated BCF <2000; log Kow ≤ 4.5) and (NOEC ≥ 0.01 mg / L for marine / freshwater organisms in proportion to C8-18 AARB).

C8-18 AAPB should not be classified as H373 - (May cause organ damage after prolonged or repeated exposure) or H372 - (Causes damage to organs following prolonged or repeated exposure) according to Regulation 1272/2008 (category 1 or 2), mutagenic (category 1 or 2) or toxic for reproduction (category 1, 2 or 3).

C8-18 AAPB do not meet the PBT or vPvB criteria according to Annex XIII of the REACH Regulation.

**PBT:** Not applicable.

**vPvB:** Not applicable.


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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Description:** Mixture: consisting of the following components.

#### Ingredients according Regulation (EU) 2020/878:

CAS: 61789-40-0 EINECS: 263-058-8 Reg.nr.: 01-2119489410-39-0007	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts   Eye Dam. 1, H318; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 4 % ≤ C < 10 %	≥30-<35%
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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information:

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

#### After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

The product is not volatile. If, in special circumstances (e.g. fire), vapour inhalation is done, transfer the patient to a well-ventilated area and seek medical help.

Supply fresh air and to be sure call for a doctor.

Seek medical treatment in case of complaints.

#### After skin contact:

Seek immediate medical advice.

In case of skin irritation, consult a physician.

#### After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

Remove contact lenses and continue rinsing for several minutes

If symptoms persist, consult a doctor.

Avoid strong water jet-risk of cornea damage, consult a doctor.

#### After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Seek immediate medical advice.

Never give anything by mouth to an unconscious person.

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

Irritation of eyes and mucous membranes.

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

No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing agents:

Foam (Specifically trained personnel only)

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:** None in particular.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available

### 5.3 Advice for firefighters

#### Protective equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Remove all unprotected people from the area.

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

#### Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

Avoid contact with skin and eyes.

Avoid inhalation of vapors.

Ensure adequate ventilation.

#### 6.1.1 For non-emergency personnel

Use personal protective equipment.

Avoid contact with dripping or leaking material

#### 6.1.2 For emergency responders

Ventilate area of leak or spill.

Wear protective equipment. Keep unprotected persons away.

First-aid responders must wear protective clothing, gloves, goggles and respiratory device with filter type A.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

### 6.3 Methods and material for containment and cleaning up:

Pick up with absorbent material (eg. sand, kieselgur, acid binder, universal binder, sawdust). Place for disposal in tightly closed containers.

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with the eyes.

Open and handle receptacle with care.

Avoid inhaling vapours.

Do not eat, drink or smoke during the usage of the product.

Wash hands before each break and after finishing work.

The usual precautionary measures should be adhered to when handling chemicals.

**Information about fire - and explosion protection:** No special measures required.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

Store at temperatures below 40 degrees C.

Store in cool, dry conditions in well-sealed receptacles.

#### Requirements to be met by storerooms and receptacles:

At lower temperatures (e.g. < 20 °C) the physical separation is possible to happen, especially after from prolonged periods. In this case it is recommended that the product be homogenized before use.

Over 40 °C the colour of the product is expected to alliwthei over time. Store in a cool location.

**Information about storage in one common storage facility:** Store away from oxidising materials.

**Further information about storage conditions:** Keep container tightly sealed.

**7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### DNELs

(CAS: 61789-40-0) 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts.

Workers:

Long-term, systemic effects, dermal: 12.5 mg/kg bw/day

Long-term, systemic effects, inhalation: 44 mg/m<sup>3</sup>

General population:

Long-term, systemic effects, dermal: 7.5 mg/kg bw/day

Long-term, systemic effects, oral: 7.5 mg/kg bw/day

#### PNECs

(CAS: 61789-40-0) 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts.

Freshwater: 0.0135 mg/l

Marine water: 0.00135 mg/l

Sewage Treatment Plant: 3000 mg/l

Freshwater sediment: 1 d.w. mg/kg

Marine water sediment: 0.1 d.w. mg/kg

Soil: 0.8 d.w. mg/kg

### 8.2 Exposure controls

**8.2.1. Appropriate engineering controls** Use of local ventilation is advised.

## Individual protection measures, such as personal protective equipment

### General protective and hygienic measures:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Do not breathe vapours or mists.
- Do not eat, drink or smoke while using the product.

### Respiratory protection:



In case of insufficient ventilation use respiratory device.

### Hand protection



Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore, a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

### Eye/face protection



Safety glasses with side-shields (frame goggles) (e.g. EN 166)

### Body protection:



Chemical resistant protective suit.

**Environmental exposure controls** Prevent enter of the product into drains, surface and groundwater and soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

<b>Colour:</b>	Light yellow
<b>Odour:</b>	Uncharacteristic.
<b>Odour threshold:</b>	Not determined
<b>Melting point/freezing point:</b>	208-280 °C
<b>Flammability</b>	Product is not flammable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined
<b>Upper:</b>	Not determined
<b>Flash point:</b>	Not Flammable
<b>Auto-ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	>208 °C
<b>pH at 20 °C</b>	4-5.5

#### Viscosity:

**Kinematic viscosity** Not applicable

**Kinematic viscosity**

**Dynamic:** Not applicable

#### Solubility

**water:** Fully miscible

**Partition coefficient n-octanol/water (log value)** 4.4 log POW

**Vapour pressure:** Not applicable

#### Density and/or relative density

**Density at 20 °C:** 1 g/cm<sup>3</sup>

**Relative density** Not determined

**Vapour density** Not applicable

### 9.2 Other information

#### Appearance:

**Form:** Liquid

#### Important information on protection of health and environment, and on safety.

**Auto-ignition temperature:** ≥260 °C

**Explosive properties:** Product does not present an explosion hazard.

#### Cloud point / clarification point:

**Oxidising properties** Not considered as oxidising.

**Evaporation rate** Not applicable

#### Information with regard to physical hazard classes

**Explosives** Void

**Flammable gases** Void

**Aerosols** Void

**Oxidising gases** Void

**Gases under pressure** Void

**Flammable liquids** Void

**Flammable solids** Void

**Self-reactive substances and mixtures** Void

**Pyrophoric liquids** Void

**Pyrophoric solids** Void

**Self-heating substances and mixtures** Void

<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

## SECTION 10: Stability and reactivity

**10.1 Reactivity** Stable under normal conditions

**10.2 Chemical stability** Material is stable under normal conditions.

**Thermal decomposition / conditions to be avoided** Stable at environment temperature.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

**10.4 Conditions to avoid** Extremely high or low temperatures

**10.5 Incompatible materials** Oxidizing agents

**10.6 Hazardous decomposition products** No dangerous decomposition products known.

## SECTION 11: Toxicological information

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

**Acute toxicity** Based on available data, the classification criteria are not met.

#### LD/LC50 values relevant for classification:

CAS: 61789-40-0 / EC number: 931-333-8 | 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts:

Oral - (rat):  
LD50: 7.45 mL/kg bw  
LD50: 2335 mg/kg bw  
LD50: 8.1 mL/kg bw  
LD50: 2430 mg/kg bw

Experimental result according to: US Guideline - Appraisal of the Safety of Chemicals in Food, Drugs and Cosmetics, FDA, 1959, equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity).

LD50: > 10000 mg/kg bw  
LD50: > 3500 mg/kg bw  
LD50: > 1750 mg/kg bw  
LD50: ca. 1530 mg/kg bw

Experimental result according to: OECD Guideline 401 (Acute Oral Toxicity) (1981).

LD50: > 5000 mg/kg bw  
LD50: > 1960 mg/kg bw

Experimental result according to: US FHSA Federal regulation: 16 CFR 1500.3 equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity).

Dermal - (rat):  
LD50: > 2000 mg/kg bw  
LD50: > 620 mg/kg bw

Experimental result according to: OECD Guideline 402 (Acute Dermal Toxicity) EU Method B.3 (Acute Toxicity (Dermal)).

Value used for CSA:

LD50 (oral): 2335 mg/kg bw  
LD50 (dermal): >2000 mg/kg bw



**Skin corrosion/irritation** Based on available data, the classification criteria are not met. **Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 11.2 Information on other hazards

### Endocrine disrupting properties

None of the ingredients is listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

CAS: 61789-40-0 / EC number: 931-333-8 | 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts:

Short-term fish toxicity: LC50 for fresh water - fish: 1.11 mg/L

LC50 for marine water - fish: 1.1 mg/L

Long-term toxicity to fish: NOEC for fresh water - fish: 0.135 mg/L

Short-term toxicity to aquatic invertebrates: Daphnia magna - fresh water - EC50: 1.9 mg/L

Daphnia magna - marine water - EC50: 7 mg/L

Long-term toxicity to aquatic invertebrates: Daphnia magna - fresh water - NOEC: 0.3 mg/L

Algae and aquatic plants: EC50 / LC50 for fresh water algae: 2.4 mg/L

EC50 / LC50 for marine water algae: 2.4 mg/L

NOEC for fresh water algae: 0.6 mg/L

NOEC for marine water algae: 0.6 mg/L

Sediment organisms: EC50 / LC50 for marine water sediment: 5129 mg/kg sediment dw

Toxicity to soil macro-organisms - EC50 or LC50: 846 mg/kg soil dw

Toxicity to aquatic microorganisms - NOEC: 3000 mg/L

Toxicity to terrestrial arthropods - NOEC: 84.6 mg/kg soil dw

### 12.2 Persistence and degradability

(CAS: 61789-40-0) 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 (even numbered) and C18 unsaturated acyl) derivatives., Hydroxides, inner salts.

93% degradation after 28 days.

The chemical was readily biodegradable in two separate closed vial tests (OECD 301D) and a modified Sturm test.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### 12.3 Bioaccumulative potential

There are no experimental data available from bioaccumulation studies with AAPBs. The substance is readily biodegradable. Therefore the bioaccumulation potential is expected to be low.

**12.4 Mobility in soil** No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

Easily biodegradable, (calculated BCF <2000; log Kow ≤ 4.5) and (NOEC ≥ 0.01 mg / L for marine / freshwater organisms in proportion to C8-18 AARB.

C8-18 AAPB should not be classified as H373 - (May cause organ damage after prolonged or repeated exposure) or H372 - (Causes damage to organs following prolonged or repeated exposure) according to Regulation 1272/2008 (category 1 or 2), mutagenic (category 1 or 2) or toxic for reproduction (category 1, 2 or 3).

C8-18 AAPB do not meet the PBT or vPvB criteria according to Annex XIII of the REACH Regulation.

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

### 12.7 Other adverse effects

**Remark:** Harmful to fish

### Additional ecological information:

#### General notes:

Must not reach sewage water or drainage ditch undiluted or unneutralised.

The product contains materials that are harmful to the environment.

Harmful to aquatic organisms

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Recommendation



Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

#### Uncleaned packaging:

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

The Essentially Natural Domain (Pty) Ltd | Reg. No. 2014/170069/07  
Unit 14, Duville Business Park, 8 Arum Lily Street, Durbanville, Cape Town, South Africa 7550  
[www.essentiallynatural.co.za](http://www.essentiallynatural.co.za) (T) 021 976 9116 (E) [support@essentiallynatural.co.za](mailto:support@essentiallynatural.co.za)

## SECTION 14: Transport information

<b>14.1 UN number or ID number</b> ADR, ADN, IMDG, IATA	Void
<b>14.2 UN proper shipping name</b> ADR, ADN, IMDG, IATA	Void
<b>14.3 Transport hazard class(es)</b>  ADR, ADN, IMDG, IATA Class	Void
<b>14.4 Packing group</b> ADR, IMDG, IATA	Void
<b>14.5 Environmental hazards:</b> <b>Marine pollutant:</b>	No
<b>14.6 Special precautions for user</b>	Not applicable.
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
<b>UN "Model Regulation":</b>	Void

## SECTION 15: Regulatory information

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

REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Regulation (EC) No.648/2004 on detergents, as amended.

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as amended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms



GHS05

**Signal word** Danger

#### Hazard-determining components of labelling:

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

#### Hazard statements

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

The Essentially Natural Domain (Pty) Ltd | Reg. No. 2014/170069/07  
Unit 14, Duville Business Park, 8 Arum Lily Street, Durbanville, Cape Town, South Africa 7550  
[www.essentiallynatural.co.za](http://www.essentiallynatural.co.za) (T) 021 976 9116 (E) [support@essentiallynatural.co.za](mailto:support@essentiallynatural.co.za)

## Precautionary statements

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear 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.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

## Directive 2012/18/EU

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

## National regulations:

### Other regulations, limitations and prohibitive regulations

### Substances of very high concern (SVHC) according to REACH, Article 57

It doesn't contain substances of very high concern (SVHC).

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

### Training hints

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**\* Data compared to the previous version altered.**