



SAFETY DATA SHEET

CAFLON ENV

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

1.1. Product identifier

Product name CAFLON ENV
Product number 10615

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

Identified uses SURFACTANT

1.3. Details of the supplier of the safety data sheet

Supplier Univar
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
+44 1274 267306
sds@univar.com

1.4. Emergency telephone number

Emergency Contact Number +44 1274 267346
(Office Hours)
Emergency Contact Number +441865 407333
(Outside Office Hours)
Sds No. 10615

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards

Not Classified

Health hazards

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards

Not Classified

Classification (67/548/EEC or 1999/45/EC)

Xn; R22. Xi; R41

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

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H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Contains

C9-11 ALCOHOL ETHOXYLATE 6 - 8 MOLES OF EO, D-GLUCOPYRANOSE, OLIGOMERIC, DECYL OCTYL GLYCOSIDE, 2-BUTOXYETHANOL, 1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERIVIS, HYDROXIDES INNER SALTS

Supplementary precautionary statements

P280 Wear protective gloves/protective clothing/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.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

C9-11 ALCOHOL ETHOXYLATE 6 - 8 MOLES OF EO		10-30%
CAS number: 68439-46-3 EC number: —		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Eye Dam. 1 - H318	Xn;R22. Xi;R41.	
Acute Tox. 4 - H302		
D-GLUCOPYRANOSE, OLIGOMERIC, DECYL OCTYL GLYCOSIDE		10-30%
CAS number: 68515-73-1 EC number: 500-220-1		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Eye Dam. 1 - H318	Xi;R41.	
2-BUTOXYETHANOL		10-30%
CAS number: 111-76-2 EC number: 203-905-0 REACH registration number: 01-2119475108-36		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	Xn;R20/21/22 Xi;R36/38	
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERIVIS, HYDROXIDES INNER SALTS		10-30%
CAS number: — EC number: 931-296-8 REACH registration number: 01-2119488533-30		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Eye Dam. 1 - H318	Xi;R41.	
Aquatic Chronic 3 - H412		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

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4.1. Description of first aid measures

Inhalation

Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion

Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. May cause permanent damage if eye is not immediately irrigated.

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

Ingestion

Harmful if swallowed.

Skin contact

Skin irritation.

Eye contact

Causes serious eye damage.

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

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Nitrous gases (NOx).

5.3. Advice for firefighters

Protective actions during firefighting

Contain and collect extinguishing water.

Special protective equipment for firefighters

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

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions

Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

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Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated 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

Occupational exposure limits

2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m³

Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m³

Sk

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERIVS, HYDROXIDES INNER SALTS

Short-term exposure limit (15-minute): 1 ppm 2.9 mg/m³

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

Ingredient comments

WEL = Workplace Exposure Limits

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C9-11 ALCOHOL ETHOXYLATE 6 - 8 MOLES OF EO (CAS: 68439-46-3)

Ingredient comments

No exposure limits known for ingredient(s).

2-BUTOXYETHANOL (CAS: 111-76-2)

Ingredient comments

WEL = Workplace Exposure Limits

DNEL	Industry - Dermal; Short term systemic effects: 89 mg/kg/day Industry - Inhalation; Short term systemic effects: 652 mg/m ³ Industry - Dermal; Long term systemic effects: 75 mg/kg/day Industry - Inhalation; Long term systemic effects: 98 mg/m ³ Consumer - Dermal; Short term systemic effects: 44.5 mg/kg/day Consumer - Inhalation; Short term systemic effects: 426 mg/m ³ Consumer - Oral; Short term systemic effects: 13.4 mg/kg/day Consumer - Dermal; Long term systemic effects: 38 mg/kg/day Consumer - Oral; Long term systemic effects: 3.2 mg/kg/day
PNEC	- Fresh water; 8.8 mg/l - Marine water; 0.88 mg/l - Sediment (Freshwater); 34.6 mg/kg - Sediment (Marinewater); 3.46 mg/kg - Soil; 2.8 mg/kg - STP; 463 mg/l

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERIVS, HYDROXIDES INNER SALTS

Ingredient comments

SUP = Supplier's recommendation.

DNEL	Industry - Dermal; Long term systemic effects: 12.5 mg/kg/day Industry - Inhalation; Long term systemic effects: 44 mg/m ³ Consumer - Dermal; Long term systemic effects: 7.5 mg/kg/day Consumer - Oral; Long term : 7.5 mg/kg/day
PNEC	- Fresh water; 0.0135 mg/l - Marine water; 0.00135 mg/l - Sediment (Freshwater); 1 mg/kg - Sediment (Marinewater); 0.1 mg/kg - Soil; 0.8 mg/kg - STP; 3000 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield. EN 166

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacture, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Neoprene, nitrile, polyethylene or PVC. EN 374

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Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. EN 136/140/145/143/149

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Liquid.

Colour

Yellow. to Amber.

Odour

Characteristic.

pH

Data lacking.

Initial boiling point and range

~ 100°C @

Flash point

> 110°C PMCC (Pensky-Martens closed cup).

Upper/lower flammability or explosive limits

Data lacking.

Vapour pressure

Data lacking.

Vapour density

Data lacking.

Relative density

1.0 @ 20°C

Solubility(ies)

Soluble in water.

Partition coefficient

Data lacking.

Auto-ignition temperature

Data lacking.

Decomposition Temperature

Data lacking.

Viscosity

100 cP @ ~20°C

Explosive properties

Data lacking.

Oxidising properties

Not determined.

9.2. Other information

Other information

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Not determined.

SECTION 10: Stability and reactivity**10.1. Reactivity**

There are no known reactivity hazards associated with this product.

10.2. Chemical stability**Stability**

Store between 5 to 40°C (41 to 104°F) Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials**Materials to avoid**

Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Nitrous gases (NOx).

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicological effects**

No information available.

Acute toxicity - oral**ATE oral (mg/kg)**

1,606.92212608

Acute toxicity - dermal**ATE dermal (mg/kg)**

9166.66666667

Acute toxicity - inhalation**ATE inhalation (gases ppm)**

37500.0

ATE inhalation (vapours mg/l)

91.66666667

ATE inhalation (dusts/mists mg/l)

12.5

Inhalation

Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

Ingestion

Harmful if swallowed.

Skin contact

Irritating to skin.

Eye contact

Causes serious eye damage.

SECTION 12: Ecological Information**12.1. Toxicity**

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No information available.

12.2. Persistence and degradability

Persistence and degradability

The surfactant(s) contained in this product 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

No data available on bioaccumulation.

Partition coefficient

Data lacking.

12.4. Mobility in soil

Mobility

The product is water-soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

Do not puncture or incinerate, even when empty. Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

CAFLON ENV**National regulations**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Dangerous Preparations Directive 1999/45/EC. 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).

Guidance

CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations. CESIO

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information**Revision comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 10/02/2015

Revision 02

Supersedes date 21/10/2011

SDS number 10615

SDS status Approved.

Signature J Spenceley

Risk phrases in full

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R21/22 Harmful in contact with skin and if swallowed.

R36/38 Irritating to eyes and skin.

R41 Risk of serious damage to eyes.

Hazard statements in full

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

TURKISH SIGNATURE