



SAFETY DATA SHEET CAFLON APG C814

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

1.1. Product identifier

Product name	CAFLON APG C814
Product number	54786
Synonyms; trade names	CAFLON APG C814 RSPO MB

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

Identified uses	Pharmaceuticals Chemical Intermediate Industrial application
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1.3. Details of the supplier of the safety data sheet

Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 +44 1274 267306 SDS.EMEA@univarsolutions.com
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1.4. Emergency telephone number

Emergency telephone	SGS - +32 (0)3 575 55 55 (24h)
Sds No.	54786

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318
Environmental hazards	Not Classified

2.2. Label elements

Hazard pictograms



Signal word	Danger
Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage.

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Precautionary statements	P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. 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. P362+P364 Take off contaminated clothing and wash it before reuse.
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Contains	D-GLUCOPYRANOSE, OLIGOMERIC, DECYL OCTYL GLYCOSIDE, D-GLUCOPYRANOSE, OLIGOMERIC, C10- 16-ALKYL GLYCOSIDES
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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

D-GLUCOPYRANOSE, OLIGOMERIC, DECYL OCTYL GLYCOSIDE			25 - 35%
CAS number: 68515-73-1	EC number: 500-220-1	REACH registration number: 01-2119488530-36-XXXX	
Classification Eye Dam. 1 - H318			

D-GLUCOPYRANOSE, OLIGOMERIC, C10- 16-ALKYL GLYCOSIDES			15 - 25%
CAS number: 110615-47-9	EC number: 600-975-8	REACH registration number: 01-2119489418-23-XXXX	
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318			

The full text for all hazard statements is displayed in Section 16.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Do not induce vomiting unless under the direction of medical personnel. Get medical attention if any discomfort continues.
Skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if any discomfort continues.

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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.

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

Skin contact Causes skin irritation.

Eye contact Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated.

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

Notes for the doctor Treat symptomatically. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards When heated and in case of fire, toxic vapours/gases may be formed.

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon.

5.3. Advice for firefighters

Protective actions during firefighting No action shall be taken without appropriate training or involving any personal risk. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Contain and collect extinguishing water. Evacuate area.

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 Provide adequate ventilation. Follow precautions for safe handling described in this safety data sheet. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Keep unnecessary and unprotected personnel away from the spillage. Do not touch or walk into spilled material.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. 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 Stop leak if safe to do so. Absorb spillage with inert, damp, non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Avoid spilling. Observe good chemical hygiene practices. Wash clothing and clean shoes thoroughly before reuse. Take precautionary measures against static discharges. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Advice on general occupational hygiene	Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Wash skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly-closed, original container in a well-ventilated place. Keep locked up and out of the reach of children. Keep away from food, drink and animal feeding stuffs. Only store in correctly labelled containers.
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7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Ingredient comments	No exposure limits known for ingredient(s).
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D-GLUCOPYRANOSE, OLIGOMERIC, DECYL OCTYL GLYCOSIDE (CAS: 68515-73-1)

DNEL	Workers - Dermal; Long term systemic effects: 595000 mg/kg Workers - Inhalation; Long term systemic effects: 420 mg/kg Consumer - Dermal; Long term systemic effects: 357000 mg/kg Consumer - Oral; Long term systemic effects: 35.7 mg/kg Consumer - Inhalation; Long term systemic effects: 124 mg/m ³
PNEC	- Fresh water; 0.1 mg/l - marine water; 0.01 mg/l - Intermittent release; 0.27 mg/l - Sediment (Freshwater); 0.487 mg/kg - Sediment (Marinewater); 0.048 mg/kg - STP; 560 mg/l - Soil; 0.654 mg/kg

D-GLUCOPYRANOSE, OLIGOMERIC, C10- 16-ALKYL GLYCOSIDES (CAS: 110615-47-9)

DNEL	Workers - Dermal; Long term systemic effects: 595000 mg/kg Workers - Inhalation; Long term systemic effects: 420 mg/kg Consumer - Dermal; Long term systemic effects: 357000 mg/kg Consumer - Oral; Long term systemic effects: 35.7 mg/kg
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PNEC

- Fresh water; 0.176 mg/l
- marine water; 0.018 mg/l
- Intermittent release; 0.0295 mg/l
- Intermittent release; 5000 mg/l
- Sediment (Freshwater); 1.516 mg/kg
- Sediment (Marinewater); 0.065 mg/kg
- Soil; 0.654 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

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. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/141/145/143/149

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Light (or pale). Yellow.
Odour	Characteristic.
Odour threshold	No information available.
pH	pH (diluted solution): 11.5 - 12.5 (20% in 15% IPA aq.)
Melting point	No information available.
Pour Point	No information available.
Freezing Point	No information available.
Initial boiling point and range	No information available.

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Flash point	> 100°C
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	1.07 - 1.11
Bulk density	No information available.
Solubility(ies)	Soluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	> 150°C
Decomposition Temperature	No information available.
Viscosity	1000 - 2000 mPa s @ 20°C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	No information available.
Oxidising properties	No information available.

9.2. Other information

Other information	Not determined.
Refractive index	No information available.
Particle size	No information available.
Molecular weight	No information available.
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
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10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Materials to avoid Not determined.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

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

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

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Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated.

Toxicological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, DECYL OCTYL GLYCOSIDE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat OECD 401

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit OECD 402

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin. Rabbit OECD 404 This information is based on test data from similar products

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage. Rabbit OECD 405 On basis of test data.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising. Mouse OECD 429

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. OECD 476

Genotoxicity - in vivo Negative. Mouse

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility - NOAEL 1000 mg/kg, Oral, Rat

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

Inhalation Gas or vapour may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

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Skin contact	Irritating to skin.
Eye contact	Causes serious eye damage.

D-GLUCOPYRANOSE, OLIGOMERIC, C10- 16-ALKYL GLYCOSIDES

Acute toxicity - oral

Notes (oral LD₅₀)	LD ₅₀ >2000 mg/kg, Oral, Rat
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Skin corrosion/irritation

Animal data	Irritating. Rabbit
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Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.
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Skin sensitisation

Skin sensitisation	Not sensitising.
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SECTION 12: Ecological information

Ecotoxicity	The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.
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12.1. Toxicity

Toxicity	Not considered toxic to fish.
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Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, DECYL OCTYL GLYCOSIDE

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 96.64 mg/l, Fish OECD 203 LC ₅₀ , 96 hour: > 100 mg/l, Brachydanio rerio (Zebra Fish) Read-across data. NOEC, 96 hours: >21 mg/l, Cyprinodon variegatus (Sheepshead minnow)
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Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >100 mg/l, Daphnia magna OECD 202 EC ₅₀ , 48 hours: 31.62 mg/l, Marinewater invertebrates
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Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 19.82 mg/l, Selenastrum capricornutum EC ₅₀ , 72 hours: 37 mg/l, Desmodesmus subspicatus Read-across data.
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Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOEC, 28 days: 1.8 mg/l, Brachydanio rerio (Zebra Fish)
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 2 mg/l, Daphnia magna

D-GLUCOPYRANOSE, OLIGOMERIC, C10- 16-ALKYL GLYCOSIDES

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 5.9 mg/l, Brachydanio rerio (Zebra Fish)
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Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 14 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC₅₀, 72 hours: 25 mg/l, Desmodesmus subspicatus

12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable.

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, DECYL OCTYL GLYCOSIDE

Persistence and degradability

The product is readily biodegradable.

Biodegradation

- Degradation 100%: 28 days
OECD 301E
- Degradation > 70%: 28 day
OECD 303A
Read-across data.
- Degradation > 60%: 28 day
OECD 301F
Read-across data.
- Degradation > 60%: 35 day
OECD 311
Read-across data.

D-GLUCOPYRANOSE, OLIGOMERIC, C10- 16-ALKYL GLYCOSIDES

Persistence and degradability

The product is readily biodegradable.

Biodegradation

- >60%: 28 days
OECD 301

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, DECYL OCTYL GLYCOSIDE

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.
BCF: <100,

Partition coefficient

log Pow: < 1.77

D-GLUCOPYRANOSE, OLIGOMERIC, C10- 16-ALKYL GLYCOSIDES

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.
BCF: <100,

Partition coefficient

log Pow: ~1.72

12.4. Mobility in soil

Mobility

Soluble in water.

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Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, DECYL OCTYL GLYCOSIDE

Mobility No information 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.

D-GLUCOPYRANOSE, OLIGOMERIC, DECYL OCTYL GLYCOSIDE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not determined.

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, DECYL OCTYL GLYCOSIDE

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.

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

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)

No transport warning sign required.

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 MARPOL and the IBC Code

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Transport in bulk according to Not applicable.
Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

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).

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).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Classification procedures according to Regulation (EC) 1272/2008

Skin Irrit. 2 - H315: Calculation method. Eye Dam. 1 - H318: Calculation method.

Revision comments

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

Revision date

28/03/2021

CAFLON APG C814

Version number	2.000
Supersedes date	18/06/2018
SDS number	54786
SDS status	Approved.
Hazard statements in full	H315 Causes skin irritation. H318 Causes serious eye damage.
Signature	Lisa Bland

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.