

Clax Revoflow Deosoft Breeze 54X1

Revision: 2015-07-12

Version: 03.0

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

1.1 Product identifier

Trade name: Clax Revoflow Deosoft Breeze 54X1

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

Identified uses:

For professional use only.

AISE-P106 - Conditioner (softener/starch). Manual process

AISE-P105 - Conditioner (softener/starch). Semi-automatic process

Uses advised against: Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: MSDSinfoUK@sealedair.com

1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

Skin Irrit. 2 (H315)

Eye Irrit. 2 (H319)

Aquatic Chronic 3 (H412)

Classification in accordance with Directive 1999/45/EC and corresponding national legislation

Indication of danger

Xi - Irritant

Risk phrases:

R36/38 - Irritating to eyes and skin.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements



Signal word: Warning.

Contains EUH208: alpha-hexylcinnamaldehyde (Hexyl Cinnamal), 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (Tetramethyl Acetyloctahydronaphtalenes), benzyl salicylate (Benzyl Salicylate)

Hazard statements:

H315 + H319 - Causes skin and serious eye irritation.

EUH208 - May produce an allergic reaction.

H412 - Harmful to aquatic life with long lasting effects.

Clax Revoflow Deosoft Breeze 54X1

2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

Ingredient(s)	EC number	CAS number	REACH number	Classification	Classification (1999/45/EC)	Notes	Weight percent
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	302-242-5	94095-35-9	No data available	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	Xi;R36/38		>= 75
propane-1,2-diol	200-338-0	57-55-6	01-2119456809-23	Not classified	-		10-20
1,4-dioxacycloheptadecane-5,17-dione	203-347-8	105-95-3	No data available	Aquatic Chronic 2 (H411)	N;R51/53		0.1-1
2-phenylethanol	200-456-2	60-12-8	No data available	Acute Tox. 3 (H311) Acute Tox. 4 (H302) Eye Irrit. 2 (H319)	Xi;R36		0.1-1
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethanol-1-one	259-174-3	54464-57-2	No data available	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	N;R51/53		0.1-1
alpha-hexylcinnamaldehyde	202-983-3	101-86-0	No data available	Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)	Xi;R38-43		0.1-1
pentyl salicylate	218-080-2	2050-08-0	No data available	Aquatic Chronic 2 (H411)	N;R51/53		0.1-1
2-tert-butylcyclohexyl acetate	201-828-7	88-41-5	No data available	Aquatic Chronic 2 (H411)	N;R51/53		0.1-1
benzyl salicylate	204-262-9	118-58-1	No data available	Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)	Xi;R43 N;R51/53		0.1-1
dodecanal	203-983-6	112-54-9	No data available	Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411)	Xi;R38 N;R51/53		0.1-1
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	422-320-3	111879-80-2	No data available	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	N;R50/53		0.1-1

* Polymer.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****Inhalation**

Get medical attention or advice if you feel unwell.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before re-use. If skin irritation occurs: Get medical advice or attention.

Eye contact:

Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Get medical attention or advice if you feel unwell.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed**Inhalation:**

No known effects or symptoms in normal use.

Skin contact:

Causes irritation.

Eye contact:

Causes severe irritation.

Ingestion:

No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

Clax Revoflow Deosoft Breeze 54X1

5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

No special measures required.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Sealed Air. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
propane-1,2-diol	150 ppm total particulates and vapour 474 mg/m ³ total particulates and vapour 10 mg/m ³ particulates	450 ppm total particulate and vapour 1422 mg/m ³ total particulate and vapour 30 mg/m ³ particulate

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values**Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available	No data available	No data available	No data available
propane-1,2-diol	-	-	-	-
1,4-dioxacycloheptadecane-5,17-dione	No data available	No data available	No data available	No data available
2-phenylethanol	No data available	No data available	No data available	No data available

Clax Revoflow Deosoft Breeze 54X1

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
pentyl salicylate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
dodecanal	No data available	No data available	No data available	No data available
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available	No data available	No data available	No data available

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available	No data available	No data available	No data available
propane-1,2-diol	No data available	-	No data available	-
1,4-dioxacycloheptadecane-5,17-dione	No data available	No data available	No data available	No data available
2-phenylethanol	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
pentyl salicylate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
dodecanal	No data available	No data available	No data available	No data available
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available	No data available	No data available	No data available

DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available	No data available	No data available	No data available
propane-1,2-diol	No data available	-	No data available	-
1,4-dioxacycloheptadecane-5,17-dione	No data available	No data available	No data available	No data available
2-phenylethanol	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
pentyl salicylate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
dodecanal	No data available	No data available	No data available	No data available
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available	No data available	No data available	No data available
propane-1,2-diol	-	-	10	168
1,4-dioxacycloheptadecane-5,17-dione	No data available	No data available	No data available	No data available
2-phenylethanol	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
pentyl salicylate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
dodecanal	No data available	No data available	No data available	No data available
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available	No data available	No data available	No data available
propane-1,2-diol	-	-	10	50
1,4-dioxacycloheptadecane-5,17-dione	No data available	No data available	No data available	No data available

Clax Revoflow Deosoft Breeze 54X1

2-phenylethanol	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
pentyl salicylate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
dodecanal	No data available	No data available	No data available	No data available
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available	No data available	No data available	No data available

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available	No data available	No data available	No data available
propane-1,2-diol	260	26	183	20000
1,4-dioxacycloheptadecane-5,17-dione	No data available	No data available	No data available	No data available
2-phenylethanol	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
pentyl salicylate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
dodecanal	No data available	No data available	No data available	No data available
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available	No data available	No data available	No data available
propane-1,2-diol	572	57.2	50	-
1,4-dioxacycloheptadecane-5,17-dione	No data available	No data available	No data available	No data available
2-phenylethanol	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
pentyl salicylate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
benzyl salicylate	No data available	No data available	No data available	No data available
dodecanal	No data available	No data available	No data available	No data available
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available	No data available	No data available	No data available

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2.

If available, please refer to the product information sheet for application and handling instructions.

Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Appropriate engineering controls:

The product is intended to be used in closed systems.

Appropriate organisational controls:

Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment**Eye / face protection:**

Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product.

Hand protection:

Chemical-resistant protective gloves (EN 374).

Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier.

Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact:

Material: butyl rubber

Penetration time: >= 480 min

Material thickness: >= 0.7 mm

Clax Revoflow Deosoft Breeze 54X1

Suggested gloves for protection against splashes:

Material: nitrile rubber

Penetration time: ≥ 30 minMaterial thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Body protection: No special requirements under normal use conditions.**Respiratory protection:** No special requirements under normal use conditions.**Environmental exposure controls:** No special requirements under normal use conditions.**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Information in this section refers to the product, unless it is specifically stated that substance data is listed

Method / remark**Physical State:** Liquid**Colour:** Clear, Not determined**Odour:** Product specific**Odour threshold:** Not applicable**pH:** ≈ 3 (neat)**Melting point/freezing point (°C):** Not determined**Initial boiling point and boiling range (°C):** Not determined

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available		
propane-1,2-diol	185-190	Method not given	1013
1,4-dioxacycloheptadecane-5,17-dione	No data available		
2-phenylethanol	No data available		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
alpha-hexylcinnamaldehyde	No data available		
pentyl salicylate	No data available		
2-tert-butylcyclohexyl acetate	No data available		
benzyl salicylate	No data available		
dodecanal	No data available		
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available		

Method / remark**Flash point (°C):** Not applicable.**Sustained combustion:** Not applicable.**Evaporation rate:** Not determined**Flammability (solid, gas):** Not determined**Upper/lower flammability limit (%):** Not determined

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
propane-1,2-diol	2.6	12.6

Method / remark**Vapour pressure:** Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available		
propane-1,2-diol	18.6	Method not given	20
1,4-dioxacycloheptadecane-5,17-dione	No data available		
2-phenylethanol	No data available		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
alpha-hexylcinnamaldehyde	No data available		
pentyl salicylate	No data available		
2-tert-butylcyclohexyl acetate	No data available		
benzyl salicylate	No data available		
dodecanal	No data available		
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available		

Clax Revoflow Deosoft Breeze 54X1

(Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one

Method / remark

Vapour density: Not determined**Relative density:** 1.01 g/cm³ (20 °C)**Solubility in / Miscibility with Water:** Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available		
propane-1,2-diol	Soluble	Method not given	
1,4-dioxacycloheptadecane-5,17-dione	No data available		
2-phenylethanol	No data available		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
alpha-hexylcinnamaldehyde	No data available		
pentyl salicylate	No data available		
2-tert-butylcyclohexyl acetate	No data available		
benzyl salicylate	No data available		
dodecanal	No data available		
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Method / remark

Autoignition temperature: Not determined**Decomposition temperature:** Not applicable.**Viscosity:** Not determined**Explosive properties:** Not explosive.**Oxidising properties:** Not oxidising**9.2 Other information****Surface tension (N/m):** Not determined**Corrosion to metals:** Not corrosive

Substance data, dissociation constant, if available:

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

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

Reacts with alkali. Keep away from products containing chlorine-based bleaching agents or sulphites.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

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

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >5000

ATE - Dermal (mg/kg): >2000

Substance data, where relevant and available, are listed below.

Acute toxicity

Acute oral toxicity

Clax Revoflow Deosoft Breeze 54X1

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available			
propane-1,2-diol	LD ₅₀	> 10000	Rat	Method not given	
1,4-dioxacycloheptadecane-5,17-dione		No data available			
2-phenylethanol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
alpha-hexylcinnamaldehyde		No data available			
pentyl salicylate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
benzyl salicylate		No data available			
dodecanal		No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available			
propane-1,2-diol	LD ₅₀	> 2000	Rabbit	Method not given	
1,4-dioxacycloheptadecane-5,17-dione		No data available			
2-phenylethanol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
alpha-hexylcinnamaldehyde		No data available			
pentyl salicylate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
benzyl salicylate		No data available			
dodecanal		No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available			
propane-1,2-diol		No data available			
1,4-dioxacycloheptadecane-5,17-dione		No data available			
2-phenylethanol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
alpha-hexylcinnamaldehyde		No data available			
pentyl salicylate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
benzyl salicylate		No data available			
dodecanal		No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available			

Clax Revoflow Deosoft Breeze 54X1

propane-1,2-diol	Not irritant	Rabbit	OECD 404 (EU B.4)	
1,4-dioxacycloheptadecane-5,17-dione	No data available			
2-phenylethanol	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
alpha-hexylcinnamaldehyde	No data available			
pentyl salicylate	No data available			
2-tert-butylcyclohexyl acetate	No data available			
benzyl salicylate	No data available			
dodecanal	No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available			
propane-1,2-diol	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
1,4-dioxacycloheptadecane-5,17-dione	No data available			
2-phenylethanol	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
alpha-hexylcinnamaldehyde	No data available			
pentyl salicylate	No data available			
2-tert-butylcyclohexyl acetate	No data available			
benzyl salicylate	No data available			
dodecanal	No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available			
propane-1,2-diol	No data available			
1,4-dioxacycloheptadecane-5,17-dione	No data available			
2-phenylethanol	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
alpha-hexylcinnamaldehyde	No data available			
pentyl salicylate	No data available			
2-tert-butylcyclohexyl acetate	No data available			
benzyl salicylate	No data available			
dodecanal	No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available			
propane-1,2-diol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
1,4-dioxacycloheptadecane-5,17-dione	No data available			
2-phenylethanol	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
alpha-hexylcinnamaldehyde	No data available			
pentyl salicylate	No data available			
2-tert-butylcyclohexyl acetate	No data available			
benzyl salicylate	No data available			
dodecanal	No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available			
propane-1,2-diol	No data available			
1,4-dioxacycloheptadecane-5,17-dione	No data available			
2-phenylethanol	No data available			

Clax Revoflow Deosoft Breeze 54X1

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
alpha-hexylcinnamaldehyde	No data available			
pentyl salicylate	No data available			
2-tert-butylcyclohexyl acetate	No data available			
benzyl salicylate	No data available			
dodecanal	No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available		No data available	
propane-1,2-diol	No evidence for mutagenicity, negative test results	Method not given	No data available	
1,4-dioxacycloheptadecane-5,17-dione	No data available		No data available	
2-phenylethanol	No data available		No data available	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		No data available	
alpha-hexylcinnamaldehyde	No data available		No data available	
pentyl salicylate	No data available		No data available	
2-tert-butylcyclohexyl acetate	No data available		No data available	
benzyl salicylate	No data available		No data available	
dodecanal	No data available		No data available	
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available
propane-1,2-diol	No evidence for carcinogenicity, negative test results
1,4-dioxacycloheptadecane-5,17-dione	No data available
2-phenylethanol	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available
alpha-hexylcinnamaldehyde	No data available
pentyl salicylate	No data available
2-tert-butylcyclohexyl acetate	No data available
benzyl salicylate	No data available
dodecanal	No data available
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized			No data available				
propane-1,2-diol			No data available				No evidence for reproductive toxicity
1,4-dioxacycloheptadecane-5,17-dione			No data available				
2-phenylethanol			No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			No data available				
alpha-hexylcinnamaldehyde			No data available				
pentyl salicylate			No data available				
2-tert-butylcyclohexyl acetate			No data available				
benzyl salicylate			No data available				
dodecanal			No data available				
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one			No data available				

Clax Revoflow Deosoft Breeze 54X1

2-en-2-one (E)-oxacyclohexadec-1 3-en-2-one a) (Z)-oxacyclohexadec-(1 2)-en-2-one and b) (Z)-oxacyclohexadec-(1 3)-en-2-one							
---	--	--	--	--	--	--	--

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available				
propane-1,2-diol		No data available				
1,4-dioxacycloheptadecane-5,17-dione		No data available				
2-phenylethanol		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
alpha-hexylcinnamaldehyde		No data available				
pentyl salicylate		No data available				
2-tert-butylcyclohexyl acetate		No data available				
benzyl salicylate		No data available				
dodecanal		No data available				
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available				
propane-1,2-diol		No data available				
1,4-dioxacycloheptadecane-5,17-dione		No data available				
2-phenylethanol		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
alpha-hexylcinnamaldehyde		No data available				
pentyl salicylate		No data available				
2-tert-butylcyclohexyl acetate		No data available				
benzyl salicylate		No data available				
dodecanal		No data available				
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available				
propane-1,2-diol		No data available				
1,4-dioxacycloheptadecane-5,17-dione		No data available				
2-phenylethanol		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
alpha-hexylcinnamaldehyde		No data available				
pentyl salicylate		No data available				
2-tert-butylcyclohexyl acetate		No data available				
benzyl salicylate		No data available				

Clax Revoflow Deosoft Breeze 54X1

		available				
dodecanal		No data available				
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized			No data available					
propane-1,2-diol			No data available					
1,4-dioxacycloheptadecane-5,17-dione			No data available					
2-phenylethanol			No data available					
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			No data available					
alpha-hexylcinnamaldehyde			No data available					
pentyl salicylate			No data available					
2-tert-butylcyclohexyl acetate			No data available					
benzyl salicylate			No data available					
dodecanal			No data available					
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available
propane-1,2-diol	No data available
1,4-dioxacycloheptadecane-5,17-dione	No data available
2-phenylethanol	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available
alpha-hexylcinnamaldehyde	No data available
pentyl salicylate	No data available
2-tert-butylcyclohexyl acetate	No data available
benzyl salicylate	No data available
dodecanal	No data available
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available
propane-1,2-diol	No data available
1,4-dioxacycloheptadecane-5,17-dione	No data available
2-phenylethanol	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available
alpha-hexylcinnamaldehyde	No data available
pentyl salicylate	No data available
2-tert-butylcyclohexyl acetate	No data available
benzyl salicylate	No data available
dodecanal	No data available
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available

Aspiration hazard

Clax Revoflow Deosoft Breeze 54X1

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information**12.1 Toxicity**

No data is available on the mixture.

Substance data, where relevant and available, are listed below

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available			
propane-1,2-diol	LC ₅₀	> 1000	<i>Fish</i>	Method not given	24
1,4-dioxacycloheptadecane-5,17-dione		No data available			
2-phenylethanol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
alpha-hexylcinnamaldehyde		No data available			
pentyl salicylate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
benzyl salicylate		No data available			
dodecanal		No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available			
propane-1,2-diol	EC ₅₀	> 100	<i>Daphnia</i>	Method not given	48
1,4-dioxacycloheptadecane-5,17-dione		No data available			
2-phenylethanol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
alpha-hexylcinnamaldehyde		No data available			
pentyl salicylate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
benzyl salicylate		No data available			
dodecanal		No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available			
propane-1,2-diol	EC ₅₀	24200	<i>Desmodesmus subspicatus</i>	OECD 201	72
1,4-dioxacycloheptadecane-5,17-dione		No data available			
2-phenylethanol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
alpha-hexylcinnamaldehyde		No data available			

Clax Revoflow Deosoft Breeze 54X1

pentyl salicylate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
benzyl salicylate		No data available			
dodecanal		No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available			
propane-1,2-diol		No data available			-
1,4-dioxacycloheptadecane-5,17-dione		No data available			
2-phenylethanol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
alpha-hexylcinnamaldehyde		No data available			
pentyl salicylate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
benzyl salicylate		No data available			
dodecanal		No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available			
propane-1,2-diol	EC ₅₀	> 20000	<i>Pseudomonas putida</i>	Method not given	18 hour(s)
1,4-dioxacycloheptadecane-5,17-dione		No data available			
2-phenylethanol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
alpha-hexylcinnamaldehyde		No data available			
pentyl salicylate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
benzyl salicylate		No data available			
dodecanal		No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available				
propane-1,2-diol		No data available				
1,4-dioxacycloheptadecane-5,17-dione		No data available				
2-phenylethanol		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
alpha-hexylcinnamaldehyde		No data available				
pentyl salicylate		No data available				
2-tert-butylcyclohexyl acetate		No data available				

Clax Revoflow Deosoft Breeze 54X1

		available				
benzyl salicylate		No data available				
dodecanal		No data available				
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available				
propane-1,2-diol	NOEC	13020	<i>Ceriodaphnia dubia</i>	Method not given	7 day(s)	
1,4-dioxacycloheptadecane-5,17-dione		No data available				
2-phenylethanol		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
alpha-hexylcinnamaldehyde		No data available				
pentyl salicylate		No data available				
2-tert-butylcyclohexyl acetate		No data available				
benzyl salicylate		No data available				
dodecanal		No data available				
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized		No data available				
propane-1,2-diol		No data available			-	
1,4-dioxacycloheptadecane-5,17-dione		No data available				
2-phenylethanol		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
alpha-hexylcinnamaldehyde		No data available				
pentyl salicylate		No data available				
2-tert-butylcyclohexyl acetate		No data available				
benzyl salicylate		No data available				
dodecanal		No data available				
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
propane-1,2-diol		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
propane-1,2-diol		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
---------------	----------	-------	---------	--------	----------	------------------

Clax Revoflow Deosoft Breeze 54X1

					time (days)	
propane-1,2-diol		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
propane-1,2-diol		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
propane-1,2-diol		No data available			-	

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized					No data available
propane-1,2-diol			> 70 % in 28 day(s)	OECD 301A	Readily biodegradable
1,4-dioxacycloheptadecane-5,17-dione					No data available
2-phenylethanol					No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one					No data available
alpha-hexylcinnamaldehyde					No data available
pentyl salicylate					No data available
2-tert-butylcyclohexyl acetate					No data available
benzyl salicylate					No data available
dodecanal					No data available
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one					No data available

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available			
propane-1,2-diol	-1.07	Method not given	No bioaccumulation expected	
1,4-dioxacycloheptadecane-5,17-dione	No data available			
2-phenylethanol	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
alpha-hexylcinnamaldehyde	No data available			
pentyl salicylate	No data available			
2-tert-butylcyclohexyl acetate	No data available			
benzyl salicylate	No data available			
dodecanal	No data available			
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available			

Clax Revoflow Deosoft Breeze 54X1

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available				
propane-1,2-diol	No data available				
1,4-dioxacycloheptadecane-5,17-dione	No data available				
2-phenylethanol	No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available				
alpha-hexylcinnamaldehyde	No data available				
pentyl salicylate	No data available				
2-tert-butylcyclohexyl acetate	No data available				
benzyl salicylate	No data available				
dodecanal	No data available				
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K _{oc}	Desorption coefficient Log K _{oc} (des)	Method	Soil/sediment type	Evaluation
9-octadecenoic acid (Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized	No data available				
propane-1,2-diol	No data available				Potential for mobility in soil, soluble in water
1,4-dioxacycloheptadecane-5,17-dione	No data available				
2-phenylethanol	No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available				
alpha-hexylcinnamaldehyde	No data available				
pentyl salicylate	No data available				
2-tert-butylcyclohexyl acetate	No data available				
benzyl salicylate	No data available				
dodecanal	No data available				
a mixture of: (E)-oxacyclohexadec-12-en-2-one (E)-oxacyclohexadec-13-en-2-one a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	No data available				

12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

20 01 29* - detergents containing dangerous substances.

European Waste Catalogue:

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information

ADR, RID, ADN, IMO/IMDG, ICAO/IATA

14.1 UN number: Non-dangerous goods

Clax Revoflow Deosoft Breeze 54X1

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

Class: -

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: The product is not transported in bulk tankers.

SECTION 15: Regulatory information

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

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

Ingredients according to EC Detergents Regulation 648/2004

cationic surfactants

>=30%

perfumes, Hexyl Cinnamal, Benzyl Salicylate, Alpha-Isomethyl Ionone, Linalool, Geraniol, Citronellol, Coumarin, Eugenol, Limonene

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MS1001151

Version: 03.0

Revision: 2015-07-12

Reason for revision:

This data sheet contains changes from the previous version in section(s): 1, 2, 3, 4, 8, 9, 11, 12, 16

Full text of the R, H and EUH phrases mentioned in section 3:

- H302 - Harmful if swallowed.
- H311 - Toxic in contact with skin.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- 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.
- R36 - Irritating to eyes.
- R38 - Irritating to skin.
- R43 - May cause sensitisation by skin contact.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

End of Safety Data Sheet