

Good Sense 30 Day Refill Green Apple O2d

Revision: 2024-08-01

Version: 01.4

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

1.1 Product identifier

Trade name: Good Sense 30 Day Refill Green Apple O2d

UFI: 7S02-S047-G00N-7XEX

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

Product use: Odor Control - Continuous Action.

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

SWED - Sector-specific worker exposure description :
AISE_SWED_PW_8a_1

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssebroeksedijk 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: customerservice.uk@solenis.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)
For medical or environmental emergency only:
call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin irritation, Category 2 (H315)
Skin sensitisation, Category 1 (H317)
Chronic aquatic toxicity, Category 2 (H411)

2.2 Label elements



Signal word: Warning.

Contains 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-Dimethyl-3-Cyclohexene Carboxaldehyde),
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one (Delta-Damascone)

Hazard statements:

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P280 - Wear protective gloves.
P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

No other hazards known.

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

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
2-tert-butylcyclohexyl acetate	201-828-7	88-41-5	01-211997071 3-33	Chronic aquatic toxicity, Category 2 (H411)		>= 75
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	241-514-7	17511-60-3	01-211996944 7-21	Chronic aquatic toxicity, Category 2 (H411)		3-10
undecan-4-olide	203-225-4	104-67-6	01-211995933 3-34	Chronic aquatic toxicity, Category 2 (H411)		3-10
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	268-264-1	68039-49-6	01-211998238 4-28	Skin irritation, Category 2 (H315) Skin sensitisation, Sub-category 1B (H317) Chronic aquatic toxicity, Category 2 (H411)		3-10
allyl (3-methylbutoxy)acetate	266-803-5	67634-00-8	01-212079545 6-39	Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315)		3-10
allyl heptanoate	205-527-1	142-19-8	01-211948896 1-23	Acute toxicity - Oral, Category 3 (H301) Acute toxicity - Dermal, Category 3 (H311) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 3 (H412)		3-10
ethyl 2-naphthyl ether	202-226-7	93-18-5	-	Skin irritation, Category 2 (H315) Chronic aquatic toxicity, Category 2 (H411)		3-10
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	260-709-8	57378-68-4	01-211953512 2-53	Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Skin sensitisation, Sub-category 1A (H317) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)		0.01-0.1

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

ATE, if available, are listed in section 11.

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

SECTION 4: First aid measures**4.1 Description of first aid measures****General Information:**

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident.

Inhalation:

Get medical attention or advice if you feel unwell.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

Eye contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 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. Never give anything by mouth to an unconscious person. 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. May cause an allergic skin reaction.

Eye contact:

No known effects or symptoms in normal use.

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**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

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6.1 Personal precautions, protective equipment and emergency procedures

Repeated or prolonged contact: Wear suitable gloves.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. 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

Collect mechanically. Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

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:

Follow general hygiene considerations recognised as common good workplace practices. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless advised by Diversey. Wash hands thoroughly after handling. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep out of reach of children.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

Comah - Lower Tier requirements (tonnes): 200

Comah - Upper Tier requirements (tonnes): 500

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:

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/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	-	-	-	-
allyl (3-methylbutoxy)acetate	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
ethyl 2-naphthyl ether	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available	No data available	No data available	No data available

DNEL/DMEL 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)
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available

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2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available	-	No data available	-
allyl (3-methylbutoxy)acetate	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
ethyl 2-naphthyl ether	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available	No data available	No data available	No data available

DNEL/DMEL 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)
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available	-	No data available	-
allyl (3-methylbutoxy)acetate	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
ethyl 2-naphthyl ether	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	-	-	-	-
allyl (3-methylbutoxy)acetate	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
ethyl 2-naphthyl ether	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	-	-	-	-
allyl (3-methylbutoxy)acetate	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
ethyl 2-naphthyl ether	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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)
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	-	-	-	-
allyl (3-methylbutoxy)acetate	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
ethyl 2-naphthyl ether	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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)
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	-	-	-	-
allyl (3-methylbutoxy)acetate	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
ethyl 2-naphthyl ether	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available	No data available	No data available	No data available

8.2 Exposure controls

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The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. 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: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Manual transfer of product	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a

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

No special requirements under normal use conditions.

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
 Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material 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: Should not reach sewage water or drainage ditch undiluted or unneutralised.

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: Solid	
Appearance: Wet wipes	
Colour: White	
Odour: Characteristic	
Odour threshold: Not applicable	
Melting point/freezing point (°C): Not determined	N.A.
Initial boiling point and boiling range (°C): Not determined	Not applicable to solids or gases

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
2-tert-butylcyclohexyl acetate	No data available		
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available		
undecan-4-olide	No data available		
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available		
allyl (3-methylbutoxy)acetate	No data available		
allyl heptanoate	No data available		
ethyl 2-naphthyl ether	No data available		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available		

	Method / remark
Flammability (solid, gas): Not determined	
Flammability (liquid): Not applicable.	
Flash point (°C): ≈ 79 °C	closed cup
Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)	
Lower and upper explosion limit/flammability limit (%): Not determined	

Substance data, flammability or explosive limits, if available:

	Method / remark
Autoignition temperature: Not determined	N.A.

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Decomposition temperature: Not applicable.

pH: Not applicable

Kinematic viscosity: Not applicable to solids or gases

Not applicable to solids or gases

Solubility in / Miscibility with water: Insoluble

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
2-tert-butylcyclohexyl acetate	No data available		
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available		
undecan-4-olide	No data available		
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available		
allyl (3-methylbutoxy)acetate	No data available		
allyl heptanoate	No data available		
ethyl 2-naphthyl ether	No data available		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available		

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

Vapour pressure: Not determined

Method / remark

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
2-tert-butylcyclohexyl acetate	No data available		
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available		
undecan-4-olide	No data available		
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available		
allyl (3-methylbutoxy)acetate	No data available		
allyl heptanoate	No data available		
ethyl 2-naphthyl ether	No data available		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available		

Relative density: ≈ 0.95 (20 °C)

Relative vapour density: No data available.

Particle characteristics: Not determined.

Method / remark

OECD 109 (EU A.3)

Not applicable to solids

Not relevant to classification of this product.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties: Not explosive.

Oxidising properties: Not oxidising.

Corrosion to metals: Not determined

N.A

N.A.

Not applicable to solids or gases

9.2.2 Other safety characteristics

No other relevant information 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

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

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

Mixture data: .

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

ATE - Dermal (mg/kg): >2000

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

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Oral (mg/kg)
2-tert-butylcyclohexyl acetate		No data available				Not established
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate		> 5000	Rat			Not established
undecan-4-olide		No data available				Not established
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				Not established
allyl (3-methylbutoxy)acetate		No data available				730
allyl heptanoate	LD ₅₀	218	Rat	Method not given		218
ethyl 2-naphthyl ether		No data available				Not established
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available				Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
2-tert-butylcyclohexyl acetate		No data available				Not established
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate		No data available				Not established
undecan-4-olide		No data available				Not established
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				Not established
allyl (3-methylbutoxy)acetate		No data available				Not established
allyl heptanoate	LD ₅₀	810	Rabbit	Method not given		810
ethyl 2-naphthyl ether		No data available				Not established
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available				Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-tert-butylcyclohexyl acetate		No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate		No data available			
undecan-4-olide		No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
allyl (3-methylbutoxy)acetate		No data available			
allyl heptanoate		No data available			
ethyl 2-naphthyl ether		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)

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2-tert-butylcyclohexyl acetate	Not established	Not established	Not established	Not established
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	Not established	Not established	Not established	Not established
undecan-4-olide	Not established	Not established	Not established	Not established
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Not established	Not established	Not established	Not established
allyl (3-methylbutoxy)acetate	Not established	Not established	Not established	Not established
allyl heptanoate	Not established	Not established	Not established	Not established
ethyl 2-naphthyl ether	Not established	Not established	Not established	Not established
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	Not established	Not established	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-tert-butylcyclohexyl acetate	No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available			
undecan-4-olide	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
allyl (3-methylbutoxy)acetate	No data available			
allyl heptanoate	Not irritant			
ethyl 2-naphthyl ether	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-tert-butylcyclohexyl acetate	No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available			
undecan-4-olide	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
allyl (3-methylbutoxy)acetate	No data available			
allyl heptanoate	Not corrosive or irritant			
ethyl 2-naphthyl ether	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-tert-butylcyclohexyl acetate	No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available			
undecan-4-olide	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
allyl (3-methylbutoxy)acetate	No data available			
allyl heptanoate	No data available			
ethyl 2-naphthyl ether	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
2-tert-butylcyclohexyl acetate	No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available			
undecan-4-olide	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
allyl (3-methylbutoxy)acetate	No data available			
allyl heptanoate	No data available			
ethyl 2-naphthyl ether	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
2-tert-butylcyclohexyl acetate	No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available			
undecan-4-olide	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
allyl (3-methylbutoxy)acetate	No data available			
allyl heptanoate	No data available			
ethyl 2-naphthyl ether	No data available			

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1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available		
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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
2-tert-butylcyclohexyl acetate	No data available		No data available	
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available		No data available	
undecan-4-olide	No data available		No data available	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available		No data available	
allyl (3-methylbutoxy)acetate	No data available		No data available	
allyl heptanoate	No data available		No data available	
ethyl 2-naphthyl ether	No data available		No data available	
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
2-tert-butylcyclohexyl acetate	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available
undecan-4-olide	No data available
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available
allyl (3-methylbutoxy)acetate	No data available
allyl heptanoate	No data available
ethyl 2-naphthyl ether	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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
2-tert-butylcyclohexyl acetate			No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate			No data available				
undecan-4-olide			No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde			No data available				
allyl (3-methylbutoxy)acetate			No data available				
allyl heptanoate			No data available				
ethyl 2-naphthyl ether			No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one			No data available				

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
2-tert-butylcyclohexyl acetate		No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate		No data available				
undecan-4-olide		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
allyl (3-methylbutoxy)acetate		No data available				
allyl heptanoate		No data available				
ethyl 2-naphthyl ether		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
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	(mg/kg bw/d)	time (days)	affected
2-tert-butylcyclohexyl acetate	No data available		
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available		
undecan-4-olide	No data available		
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available		
allyl (3-methylbutoxy)acetate	No data available		
allyl heptanoate	No data available		
ethyl 2-naphthyl ether	No data available		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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
2-tert-butylcyclohexyl acetate		No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate		No data available				
undecan-4-olide		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
allyl (3-methylbutoxy)acetate		No data available				
allyl heptanoate		No data available				
ethyl 2-naphthyl ether		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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
2-tert-butylcyclohexyl acetate			No data available					
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate			No data available					
undecan-4-olide			No data available					
2,4-dimethylcyclohex-3-ene-1-carbaldehyde			No data available					
allyl (3-methylbutoxy)acetate			No data available					
allyl heptanoate			No data available					
ethyl 2-naphthyl ether			No data available					
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
2-tert-butylcyclohexyl acetate	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available
undecan-4-olide	No data available
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available
allyl (3-methylbutoxy)acetate	No data available
allyl heptanoate	No data available
ethyl 2-naphthyl ether	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
2-tert-butylcyclohexyl acetate	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available
undecan-4-olide	No data available

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2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available
allyl (3-methylbutoxy)acetate	No data available
allyl heptanoate	No data available
ethyl 2-naphthyl ether	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms

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

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

Endocrine disrupting properties - Human data, if available:

11.2.2 Other information

No other relevant information available.

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)
2-tert-butylcyclohexyl acetate		No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate		No data available			
undecan-4-olide		No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
allyl (3-methylbutoxy)acetate		No data available			
allyl heptanoate	LC ₅₀	0.12	<i>Brachydanio rerio</i>	OECD 203, semi-static	96
ethyl 2-naphthyl ether		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-tert-butylcyclohexyl acetate		No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate		No data available			
undecan-4-olide	EC ₅₀	5.85	<i>Daphnia magna Straus</i>	OECD 202, static	48
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
allyl (3-methylbutoxy)acetate		No data available			
allyl heptanoate		No data available			
ethyl 2-naphthyl ether		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-tert-butylcyclohexyl acetate		No data available			

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3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate		No data available			
undecan-4-olide	EC ₅₀	7.218	<i>Pseudokirchneriella subcapitata</i>	OECD 201, static	72
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
allyl (3-methylbutoxy)acetate		No data available			
allyl heptanoate		No data available			
ethyl 2-naphthyl ether		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
2-tert-butylcyclohexyl acetate		No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate		No data available			
undecan-4-olide		No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
allyl (3-methylbutoxy)acetate		No data available			
allyl heptanoate		No data available			
ethyl 2-naphthyl ether		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
2-tert-butylcyclohexyl acetate		No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate		No data available			
undecan-4-olide		No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available			
allyl (3-methylbutoxy)acetate		No data available			
allyl heptanoate		No data available			
ethyl 2-naphthyl ether		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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
2-tert-butylcyclohexyl acetate		No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate		No data available				
undecan-4-olide		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
allyl (3-methylbutoxy)acetate		No data available				
allyl heptanoate		No data available				
ethyl 2-naphthyl ether		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
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	(mg/l)	time
2-tert-butylcyclohexyl acetate	No data available	
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available	
undecan-4-olide	No data available	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available	
allyl (3-methylbutoxy)acetate	No data available	
allyl heptanoate	No data available	
ethyl 2-naphthyl ether	No data available	
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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
2-tert-butylcyclohexyl acetate		No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate		No data available				
undecan-4-olide		No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde		No data available				
allyl (3-methylbutoxy)acetate		No data available				
allyl heptanoate		No data available				
ethyl 2-naphthyl ether		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available				

Terrestrial toxicity

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

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if 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
2-tert-butylcyclohexyl acetate				Method not given	Not readily biodegradable.
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate					Poorly biodegradable
undecan-4-olide				OECD 301F	Readily biodegradable
2,4-dimethylcyclohex-3-ene-1-carbaldehyde			3% in 28 day(s)	OECD 301F	Not readily biodegradable.
allyl (3-methylbutoxy)acetate					Not readily biodegradable.
allyl heptanoate	Activated sludge, aerobe		40%	OECD 301D	Not readily biodegradable.
ethyl 2-naphthyl ether				Weight of evidence	Not readily biodegradable.
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one					Not readily biodegradable.

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Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
2-tert-butylcyclohexyl acetate	No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available			
undecan-4-olide	No data available			
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available			
allyl (3-methylbutoxy)acetate	No data available			
allyl heptanoate	No data available			
ethyl 2-naphthyl ether	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
2-tert-butylcyclohexyl acetate	No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available				
undecan-4-olide	No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available				
allyl (3-methylbutoxy)acetate	No data available				
allyl heptanoate	No data available				
ethyl 2-naphthyl ether	No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
2-tert-butylcyclohexyl acetate	No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	No data available				
undecan-4-olide	No data available				
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	No data available				
allyl (3-methylbutoxy)acetate	No data available				
allyl heptanoate	No data available				
ethyl 2-naphthyl ether	No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-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 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products:

European Waste Catalogue:

Empty packaging

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.

16 03 05* - organic wastes containing dangerous substances.

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Recommendation: Dispose of observing national or local regulations.

SECTION 14: Transport information



Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number: 3077

14.2 UN proper shipping name:

Environmentally hazardous substance, solid, n.o.s. (2-tert-butylcyclohexyl acetate)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 9

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6 Special precautions for user: None known.

14.7 Maritime transport in bulk according to IMO instruments: The product is not transported in bulk tankers.

Other relevant information:

ADR

Classification code: M7

Tunnel restriction code: (-)

Hazard identification number: 90

IMO/IMDG

EmS: F-A, S-F

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for dangerous goods packed in small quantities classified under UN3077 or UN3082.

SECTION 15: Regulatory information

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

National regulations :

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

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

Comah - classification: E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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: MS1002080

Version: 01.4

Revision: 2024-08-01

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 1, 3, 7, 8, 9, 11, 12, 16

Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for

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classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H311 - Toxic in contact with skin.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H400 - Very toxic to aquatic life.
- H402 - Harmful to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

End of Safety Data Sheet