

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Issue date: 8/21/2020

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

1.1. Product identifier

Product form : Mixture
Product name : Hawaiian Salt & Citrus
UFI : AVR-V-83EC-W00V-CG18
Product code :
Type of product : Perfumes, fragrances
Product group : Finished Good

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Industrial/Professional use spec : Industrial
For professional use only
Use of the substance/mixture : Perfumes, fragrances
Function or use category : Odour agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Kandara Oils Ltd
Unit 11, Agecroft Enterprise Park, Shearer Way,
Manchester, M27 8WA +447786556114
kandaraoils@gmail.com - www.kandaraoils.co.uk

1.4. Emergency telephone number

Emergency number : 07786556114

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302
Skin corrosion/irritation, Category 2 H315
Skin sensitisation, Category 1 H317
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS08

GHS09

Signal word (CLP)

: Danger

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Hazardous ingredients	: Aldehyde C-12; Allyl cyclohexylpropionate; UNDECYLENAL; Citronellal; Aldehyde C-16; Citronellol Pure; Hexyl cinnamic aldehyde; Cyclamal; Geraniol; Cumincic aldehyde; Citral; Geranyl acetate; Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0); Neryl acetate; Lime oil distilled ; Floralozone; Triplal (Vertocitral); Linalool; Benzyl benzoate; Orange oil ; Hexyl salicylate
Hazard statements (CLP)	: H302 - Harmful if swallowed. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Benzyl benzoate	(CAS-No.) 120-51-4 (EC-No.) 204-402-9 (EC Index-No.) 607-085-00-9 (REACH-no) 01-2119976371-33	11.5 – 23	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Orange oil	(CAS-No.) 8008-57-9 (EC-No.) 232-433-8 (REACH-no) 01-2119493353-35	7.4 – 14.8	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Hexyl cinnamic aldehyde	(CAS-No.) 101-86-0 (EC-No.) 202-983-3 (REACH-no) 01-2119533092-50	3.55 – 7.1	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Phenylmethanol	(CAS-No.) 100-51-6 (EC-No.) 202-859-9 (EC Index-No.) 603-057-00-5 (REACH-no) 01-2119492630-38	2.3 – 4.6	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2 (REACH-no) 01-2119474016-42	2.3 – 4.6	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Ethylene brassylate	(CAS-No.) 105-95-3 (EC-No.) 203-347-8 (REACH-no) 01-2119967772-24	2.225 – 4.45	Aquatic Chronic 2, H411

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Aldehyde C-14	(CAS-No.) 104-67-6 (EC-No.) 203-225-4 (REACH-no) 01-2119959333-34	2.05 – 4.1	Aquatic Chronic 3, H412
2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol	(CAS-No.) 63500-71-0 (EC-No.) 405-040-6 (EC Index-No.) 603-101-00-3 (REACH-no) 01-000015458-64	0.6 – 2.83322	Eye Irrit. 2, H319
Verdox	(CAS-No.) 88-41-5 (EC-No.) 201-828-7 (REACH-no) 01-2119970713-33	1.375 – 2.75	Aquatic Chronic 2, H411
Aldehyde C-16	(CAS-No.) 77-83-8 (EC-No.) 201-061-8 (REACH-no) 01-2119967770-28	1.05 – 2.1	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Dihydromyrcenol	(CAS-No.) 18479-58-8 (EC-No.) 242-362-4 (REACH-no) 01-2119457274-37	0.6 – 1.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Citral	(CAS-No.) 5392-40-5 (EC-No.) 226-394-6 (EC Index-No.) 605-019-00-3 (REACH-no) 01-2119462829-23	0.55 – 1.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Terpinyl acetate	(CAS-No.) 80-26-2 (EC-No.) 201-265-7	0.55 – 1.1	Aquatic Chronic 2, H411
Veltol plus crystals	(CAS-No.) 4940-11-8 (EC-No.) 225-582-5	0.5 – 1	Acute Tox. 4 (Oral), H302
Cyclamal	(CAS-No.) 103-95-7 (EC-No.) 203-161-7 (REACH-no) 01-2119970582-32	0.35 – 0.7	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Geranyl acetate	(CAS-No.) 105-87-3 (EC-No.) 203-341-5 (REACH-no) 01-2119973480-35	0.35 – 0.7	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Allyl heptanoate	(CAS-No.) 142-19-8 (EC-No.) 205-527-1 (REACH-no) 01-2119488961-23	0.225 – 0.45	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Triplal (Vertocitral)	(CAS-No.) 68039-49-6 (EC-No.) 268-264-1	0.225 – 0.45	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Lime oil distilled	(CAS-No.) 8008-26-2 (EC-No.) 290-010-3;616-919-0	0.2 – 0.4	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Chronic 1, H410
Hexyl salicylate	(CAS-No.) 6259-76-3 (EC-No.) 228-408-6	0.012 – 0.34	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Isoamyl acetate substance with a Community workplace exposure limit	(CAS-No.) 123-92-2 (EC-No.) 204-662-3 (EC Index-No.) 607-130-00-2 (REACH-no) 01-2119548408-32	0.15 – 0.3	Flam. Liq. 3, H226

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Allyl cyclohexylpropionate	(CAS-No.) 2705-87-5 (EC-No.) 220-292-5	0.15 – 0.3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
UNDECYLENAL	(CAS-No.) 112-45-8 (EC-No.) 203-973-1 (REACH-no) 01-2119990746-20	0.15 – 0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Citronellal	(CAS-No.) 106-23-0 (EC-No.) 203-376-6	0.15 – 0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Citronellol Pure	(CAS-No.) 106-22-9 (EC-No.) 203-375-0 (REACH-no) 01-2119453995-23	0.15 – 0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Floralozone	(CAS-No.) 67634-15-5 (EC-No.) 266-819-2 (REACH-no) 01-2120758796-34	0.15 – 0.3	Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Skin Irrit. 2, H315 Skin Sens. 1B, H317
Geraniol	(CAS-No.) 106-24-1 (EC-No.) 203-377-1 (REACH-no) 01-2119552430-49	0.1 – 0.2	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Aldehyde C-12	(CAS-No.) 112-54-9 (EC-No.) 203-983-6	0.075 – 0.15	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1B, H317
Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0)	(CAS-No.) 24720-09-0 (EC-No.) 246-430-4	0.075 – 0.15	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317
Neryl acetate	(CAS-No.) 141-12-8 (EC-No.) 205-459-2	0.075 – 0.15	Skin Sens. 1B, H317
Allyl caproate	(CAS-No.) 123-68-2 (EC-No.) 204-642-4 (REACH-no) 01-2119983573-26	0.05 – 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Cuminic aldehyde	(CAS-No.) 122-03-2 (EC-No.) 204-516-9	0.05 – 0.1	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317
Diphenyl oxide	(CAS-No.) 101-84-8 (EC-No.) 202-981-2 (REACH-no) 01-2119472545-33	0.05 – 0.1	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
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Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Symptoms/effects after ingestion : Risk of lung oedema.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Isoamyl acetate (123-92-2)	
EU - Occupational Exposure Limits	
IOELV TWA (mg/m ³)	270 mg/m ³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m ³)	540 mg/m ³
IOELV STEL (ppm)	100 ppm
Austria - Occupational Exposure Limits	
MAK (mg/m ³)	270 mg/m ³ (Pentyl acetate (all isomers))
MAK (ppm)	50 ppm (Pentyl acetate (all isomers))
MAK Short time value (mg/m ³)	540 mg/m ³ (Pentylacetate)
MAK Short time value (ppm)	100 ppm (Pentylacetate)
Belgium - Occupational Exposure Limits	
Limit value (mg/m ³)	270 mg/m ³
Limit value (ppm)	50 ppm
Short time value (mg/m ³)	540 mg/m ³
Short time value (ppm)	100 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Croatia - Occupational Exposure Limits	
GVI (granična vrijednost izloženosti) (mg/m ³)	270 mg/m ³
GVI (granična vrijednost izloženosti) (ppm)	50 ppm
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	540 mg/m ³
KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Isoamyl acetate (123-92-2)	
Denmark - Occupational Exposure Limits	
Grænsevædi (8 timer) (mg/m ³)	271 mg/m ³ (Amyl acetate, all isomers)
Grænsevædi (8 timer) (ppm)	50 ppm (Amyl acetate, all isomers)
Estonia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	270 mg/m ³ (Pentyl acetate)
HTP-arvo (8h) (ppm)	50 ppm (Pentyl acetate)
HTP-arvo (15 min)	540 mg/m ³
HTP-arvo (15 min) (ppm)	100 ppm
France - Occupational Exposure Limits	
VME (mg/m ³)	270 mg/m ³ (restrictive limit)
VME (ppm)	50 ppm (restrictive limit)
VLE (mg/m ³)	540 mg/m ³ (restrictive limit)
VLE (ppm)	100 ppm (restrictive limit)
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	270 mg/m ³
Occupational exposure limit value (ppm)	50 ppm
Gibraltar - Occupational Exposure Limits	
Eight hours mg/m ³	270 mg/m ³
Eight hours ppm	50 ppm
Short-term mg/m ³	540 mg/m ³
Short-term ppm	100 ppm
Greece - Occupational Exposure Limits	
OEL TWA (mg/m ³)	530 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	800 mg/m ³
OEL STEL (ppm)	150 ppm
Hungary - Occupational Exposure Limits	
AK-érték	270 mg/m ³
CK-érték	540 mg/m ³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	260 mg/m ³
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (mg/m ³)	520 mg/m ³
OEL (15 min ref) (ppm)	100 ppm

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Isoamyl acetate (123-92-2)	
Italy - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	270 mg/m ³
IPRV (ppm)	50 ppm
TPRV (mg/m ³)	540 mg/m ³
TPRV (ppm)	100 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Malta - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 15MIN (mg/m ³)	530 mg/m ³
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	250 mg/m ³
NDSch (mg/m ³)	500 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³ (indicative limit value)
OEL TWA (ppm)	50 ppm (indicative limit value)
OEL STEL (mg/m ³)	540 mg/m ³ (indicative limit value)
OEL STEL (ppm)	100 ppm (indicative limit value, regulated under Pentyl acetate, all isomers)
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	270 mg/m ³

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Isoamyl acetate (123-92-2)	
NPHV (priemerná) (ppm)	50 ppm
NPHV (Hraničná) (mg/m ³)	540 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	270 mg/m ³ (indicative limit value)
VLA-ED (ppm)	50 ppm (indicative limit value)
VLA-EC (mg/m ³)	540 mg/m ³
VLA-EC (ppm)	100 ppm
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	270 mg/m ³ (Pentyl acetates)
nivågränsvärde (NVG) (ppm)	50 ppm (Pentyl acetates)
kortidsvärde (KTV) (mg/m ³)	540 mg/m ³ (Pentyl acetates)
kortidsvärde (KTV) (ppm)	100 ppm (Pentyl acetates)
Norway - Occupational Exposure Limits	
Grenseverdier (AN) (mg/m ³)	260 mg/m ³
Grenseverdier (AN) (ppm)	50 ppm
Grenseverdier (Korttidsverdi) (mg/m ³)	325 mg/m ³ (value calculated)
Grenseverdier (Korttidsverdi) (ppm)	75 ppm (value calculated)
Turkey - Occupational Exposure Limits	
OEL TWA (mg/m ³)	270 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	540 mg/m ³
OEL STEL (ppm)	100 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	50 ppm (Pentyl acetate, all isomers)
ACGIH STEL (ppm)	100 ppm (Pentyl acetate, all isomers)

Citral (5392-40-5)	
Belgium - Occupational Exposure Limits	
Limit value (mg/m ³)	32 mg/m ³ (vapor and aerosol)
Limit value (ppm)	5 ppm (vapor and aerosol)
OEL chemical category (BE)	Skin
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	5 ppm
OEL (15 min ref) (ppm)	15 ppm (calculated)
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	27 mg/m ³

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Citral (5392-40-5)	
NDSch (mg/m ³)	54 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA (ppm)	5 ppm
OEL chemical category (PT)	Sensitizer, skin - potential for cutaneous exposure
Spain - Occupational Exposure Limits	
VLA-ED (ppm)	5 ppm (inhalable fraction and vapor)
OEL chemical category (ES)	Sensitizer, skin - potential for cutaneous absorption
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	5 ppm (inhalable fraction and vapor)
ACGIH chemical category	dermal sensitizer, Skin - potential significant contribution to overall exposure by the cutaneous route, Not Classifiable as a Human Carcinogen

Diphenyl oxide (101-84-8)	
EU - Occupational Exposure Limits	
IOELV TWA (mg/m ³)	7 mg/m ³
IOELV TWA (ppm)	1 ppm
IOELV STEL (mg/m ³)	14 mg/m ³
IOELV STEL (ppm)	2 ppm
Austria - Occupational Exposure Limits	
MAK (mg/m ³)	7 mg/m ³
MAK (ppm)	1 ppm
MAK Short time value (mg/m ³)	14 mg/m ³
MAK Short time value (ppm)	2 ppm
Belgium - Occupational Exposure Limits	
Limit value (mg/m ³)	7 mg/m ³ (vapor)
Limit value (ppm)	1 ppm (vapor)
Short time value (mg/m ³)	14 mg/m ³ (vapor)
Short time value (ppm)	2 ppm (vapor)
Bulgaria - Occupational Exposure Limits	
OEL TWA (mg/m ³)	7 mg/m ³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	14 mg/m ³
OEL STEL (ppm)	2 ppm
Croatia - Occupational Exposure Limits	
GVI (granična vrijednost izloženosti) (mg/m ³)	7 mg/m ³
GVI (granična vrijednost izloženosti) (ppm)	1 ppm
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	14 mg/m ³
KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	2 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA (mg/m ³)	7 mg/m ³

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Diphenyl oxide (101-84-8)	
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	14 mg/m ³
OEL STEL (ppm)	2 ppm
Czech Republic - Occupational Exposure Limits	
Expoziční limity (PEL) (mg/m ³)	5 mg/m ³
Denmark - Occupational Exposure Limits	
Grænsevædi (8 timer) (mg/m ³)	7 mg/m ³
Grænsevædi (8 timer) (ppm)	1 ppm
Estonia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	7 mg/m ³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	14 mg/m ³
OEL STEL (ppm)	2 ppm
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	7 mg/m ³
HTP-arvo (8h) (ppm)	1 ppm
HTP-arvo (15 min)	14 mg/m ³
HTP-arvo (15 min) (ppm)	2 ppm
France - Occupational Exposure Limits	
VME (mg/m ³)	7 mg/m ³
VME (ppm)	1 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	7.1 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)
Occupational exposure limit value (ppm)	1 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)
Gibraltar - Occupational Exposure Limits	
Eight hours mg/m ³	7 mg/m ³
Eight hours ppm	1 ppm
Short-term mg/m ³	14 mg/m ³
Short-term ppm	200 ppm
Greece - Occupational Exposure Limits	
OEL TWA (mg/m ³)	7 mg/m ³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	14 mg/m ³
OEL STEL (ppm)	2 ppm
Hungary - Occupational Exposure Limits	
AK-érték	7 mg/m ³
CK-érték	14 mg/m ³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	7 mg/m ³ (vapour)

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Diphenyl oxide (101-84-8)	
OEL (8 hours ref) (ppm)	1 ppm (vapour)
OEL (15 min ref) (mg/m ³)	14 mg/m ³ (vapour)
OEL (15 min ref) (ppm)	2 ppm (vapour)
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	7 mg/m ³
OEL TWA (ppm)	1 ppm
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	7 mg/m ³
IPRV (ppm)	1 ppm
TPRV (mg/m ³)	14 mg/m ³
TPRV (ppm)	2 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA (mg/m ³)	7 mg/m ³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	14 mg/m ³
OEL STEL (ppm)	2 ppm
Malta - Occupational Exposure Limits	
OEL TWA (mg/m ³)	7 mg/m ³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	14 mg/m ³
OEL STEL (ppm)	2 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	7 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	14 mg/m ³
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	7 mg/m ³
NDSch (mg/m ³)	14 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA (mg/m ³)	7 mg/m ³
OEL TWA (ppm)	1 ppm (vapor)
OEL STEL (mg/m ³)	14 mg/m ³ (indicative limit value)
OEL STEL (ppm)	2 ppm (indicative limit value-vapor)
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	5 mg/m ³
OEL TWA (ppm)	0.7 ppm
OEL STEL (mg/m ³)	10 mg/m ³
OEL STEL (ppm)	1.4 ppm
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	7 mg/m ³
NPHV (priemerná) (ppm)	1 ppm

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Diphenyl oxide (101-84-8)	
NPHV (Hraničná) (mg/m ³)	7.1 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	7 mg/m ³
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m ³)	14 mg/m ³
OEL STEL (ppm)	2 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	7.1 mg/m ³ (vapor)
VLA-ED (ppm)	1 ppm (vapor)
VLA-EC (mg/m ³)	14.2 mg/m ³ (vapor)
VLA-EC (ppm)	2 ppm (vapor)
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	7 mg/m ³
nivågränsvärde (NVG) (ppm)	1 ppm
kortidsvärde (KTV) (mg/m ³)	14 mg/m ³
kortidsvärde (KTV) (ppm)	2 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	7.1 mg/m ³ (vapour)
WEL TWA (ppm)	1 ppm (vapour)
WEL STEL (mg/m ³)	21.3 mg/m ³ (calculated-vapour)
WEL STEL (ppm)	3 ppm (calculated-vapour)
Norway - Occupational Exposure Limits	
Grenseverdier (AN) (mg/m ³)	7 mg/m ³
Grenseverdier (AN) (ppm)	1 ppm
Grenseverdier (Korttidsverdi) (mg/m ³)	14 mg/m ³ (value calculated)
Grenseverdier (Korttidsverdi) (ppm)	2 ppm (value calculated)
Switzerland - Occupational Exposure Limits	
MAK (mg/m ³)	7 mg/m ³ (aerosol, vapour)
MAK (ppm)	1 ppm (aerosol, vapour)
KZGW (mg/m ³)	7 mg/m ³ (aerosol, vapour)
KZGW (ppm)	1 ppm (aerosol, vapour)
OEL chemical category (CH)	Category 2 developmental toxin, Category 2 reproductive toxin
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	1 ppm (vapor)
ACGIH STEL (ppm)	2 ppm (vapor fraction)
Phenylmethanol (100-51-6)	
Bulgaria - Occupational Exposure Limits	
OEL TWA (mg/m ³)	5 mg/m ³
Czech Republic - Occupational Exposure Limits	
Expoziční limity (PEL) (mg/m ³)	40 mg/m ³

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Phenylmethanol (100-51-6)	
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	45 mg/m ³
HTP-arvo (8h) (ppm)	10 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	22 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Occupational exposure limit value (ppm)	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Chemical category	Skin notation
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	5 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	5 mg/m ³
OEL chemical category (LT)	Skin notation
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	240 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	22 mg/m ³
OEL TWA (ppm)	5 ppm
OEL STEL (mg/m ³)	44 mg/m ³
OEL STEL (ppm)	10 ppm
OEL chemical category (SI)	Potential for cutaneous absorption
Switzerland - Occupational Exposure Limits	
MAK (mg/m ³)	22 mg/m ³ (aerosol, vapour)
MAK (ppm)	5 ppm (aerosol, vapour)
OEL chemical category (CH)	Skin notation

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow. amber.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 86 °C (closed cup) ASTM D7094
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: ≈ 0.94
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Hawaiian Salt & Citrus

ATE CLP (oral)	1624.179 mg/kg bodyweight
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Allyl caproate (123-68-2)

LD50 oral	300 mg/kg bodyweight
LD50 dermal	300 mg/kg bodyweight
LC50 inhalation rat (Vapours - mg/l/4h)	3 mg/l/4h

Aldehyde C-12 (112-54-9)

LD50 oral rat	23 g/kg
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Allyl cyclohexylpropionate (2705-87-5)

LD50 oral rat	585 mg/kg
LD50 oral	480 mg/kg bodyweight
LD50 dermal	1600 mg/kg bodyweight
LC50 inhalation rat (Vapours - mg/l/4h)	11 mg/l/4h

UNDECYLENAL (112-45-8)

LD50 oral rat	> 5 g/kg
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Aldehyde C-14 (104-67-6)

LD50 oral rat	18500 mg/kg
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Citronellal (106-23-0)

LD50 oral rat	2420 mg/kg
LD50 oral	2500 mg/kg bodyweight
LD50 dermal rabbit	> 2.5 g/kg
LD50 dermal	2500 mg/kg bodyweight

Allyl heptanoate (142-19-8)

LD50 oral rat	500 mg/kg
LD50 oral	218 mg/kg bodyweight
LD50 dermal	810 mg/kg bodyweight

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Aldehyde C-16 (77-83-8)

LD50 oral rat	5470 mg/kg
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Citronellol Pure (106-22-9)

LD50 oral rat	3450 mg/kg
LD50 oral	3450 mg/kg bodyweight
LD50 dermal rabbit	2650 mg/kg
LD50 dermal	2650 mg/kg bodyweight

Hexyl cinnamic aldehyde (101-86-0)

LD50 oral rat	3100 mg/kg
LD50 oral	3100 mg/kg bodyweight
LD50 dermal rabbit	> 3000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h

Cyclamal (103-95-7)

LD50 oral rat	3810 mg/kg
LD50 oral	3810 mg/kg bodyweight

Ethylene brassylate (105-95-3)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Geraniol (106-24-1)

LD50 oral rat	3600 mg/kg
LD50 oral	3600 mg/kg bodyweight
LD50 dermal rabbit	> 5 g/kg

Cuminic aldehyde (122-03-2)

LD50 oral rat	1390 mg/kg
LD50 oral	1390 mg/kg bodyweight
LD50 dermal	2800 mg/kg bodyweight

Dihydromyrcenol (18479-58-8)

LD50 oral rat	3600 mg/kg
LD50 oral	3600 mg/kg bodyweight
LD50 dermal rabbit	> 5 g/kg

Citral (5392-40-5)

LD50 oral rat	4960 mg/kg
LD50 dermal rabbit	2250 mg/kg
LD50 dermal	2250 mg/kg bodyweight

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Geranyl acetate (105-87-3)

LD50 oral rat	6330 mg/kg
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Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0) (24720-09-0)

LD50 oral	1670 mg/kg bodyweight
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LD50 dermal	2900 mg/kg bodyweight
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Diphenyl oxide (101-84-8)

LD50 oral rat	2450 mg/kg
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LD50 oral	2830 mg/kg bodyweight
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LD50 dermal rabbit	> 7940 mg/kg
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LC50 inhalation rat (Dust/Mist - mg/l/4h)	1.5 mg/l/4h
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Neryl acetate (141-12-8)

LD50 oral rat	> 5 g/kg
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Veltol plus crystals (4940-11-8)

LD50 oral rat	1150 mg/kg
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LD50 oral	1200 mg/kg bodyweight
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Phenylmethanol (100-51-6)

LD50 oral rat	1230 mg/kg
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LD50 oral	1620 mg/kg bodyweight
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LD50 dermal	2500 mg/kg bodyweight
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Lime oil distilled (8008-26-2)

LD50 oral rat	5600 mg/kg
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LD50 dermal rabbit	> 5000 mg/kg
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Terpinyl acetate (80-26-2)

LD50 oral rat	5075 mg/kg
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Verdox (88-41-5)

LD50 oral rat	4600 mg/kg
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LD50 oral	4600 mg/kg bodyweight
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Triplal (Vertocitral) (68039-49-6)

LD50 oral	3900 mg/kg bodyweight
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Linalool (78-70-6)

LD50 oral	2790 mg/kg bodyweight
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Benzyl benzoate (120-51-4)

LD50 oral rat	500 mg/kg
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Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

LD50 oral	1500 mg/kg bodyweight
LD50 dermal rabbit	4000 mg/kg
LD50 dermal	4000 mg/kg bodyweight

Orange oil (8008-57-9)

LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Hexyl salicylate (6259-76-3)

LD50 oral rat	> 5 g/kg
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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

Allyl caproate (123-68-2)

LC50 fish 1	0.117 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
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Allyl cyclohexylpropionate (2705-87-5)

LC50 fish 1	0.13 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
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Aldehyde C-14 (104-67-6)

LC50 fish 1	569 mg/l 96 h
EC50 Daphnia 1	5.85 mg/l 48 h
EC50 other aquatic organisms 1	5.94 mg/l 72 h

Aldehyde C-16 (77-83-8)

LC50 fish 1	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
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Geraniol (106-24-1)

LC50 fish 1	22 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
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Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Cuminic aldehyde (122-03-2)

LC50 fish 1	6.62 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
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Citral (5392-40-5)

EC50 Daphnia 1	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
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EC50 72h algae (1)	16 mg/l (Species: Desmodesmus subspicatus)
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EC50 96h algae (1)	19 mg/l (Species: Desmodesmus subspicatus)
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Veltol plus crystals (4940-11-8)

LC50 fish 1	> 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
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Phenylmethanol (100-51-6)

LC50 fish 1	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
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LC50 fish 2	10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
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EC50 Daphnia 1	23 mg/l (Exposure time: 48 h - Species: water flea)
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Terpinyl acetate (80-26-2)

LC50 fish 1	> 11 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
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Linalool (78-70-6)

EC50 96h algae (1)	88.3 mg/l (Species: Desmodesmus subspicatus)
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Benzyl benzoate (120-51-4)

LC50 fish 1	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
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NOEC (chronic)	0.168 mg/l
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12.2. Persistence and degradability

Benzyl benzoate (120-51-4)

Persistence and degradability	May cause long-term adverse effects in the environment.
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12.3. Bioaccumulative potential

Citral (5392-40-5)

Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)
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Diphenyl oxide (101-84-8)

BCF fish 1	470
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Partition coefficient n-octanol/water (Log Pow)	4.2
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Phenylmethanol (100-51-6)

Partition coefficient n-octanol/water (Log Pow)	1.1
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Benzyl benzoate (120-51-4)

Partition coefficient n-octanol/water (Log Pow)	4
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Bioaccumulative potential	Not established.
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Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : UN 3082
UN-No. (IMDG) : UN 3082
UN-No. (IATA) : UN 3082
UN-No. (ADN) : UN 3082
UN-No. (RID) : UN 3082

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.
Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Allyl cyclohexylpropionate), 9, III, (-)
Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Allyl cyclohexylpropionate), 9, III, MARINE POLLUTANT
Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Allyl cyclohexylpropionate), 9, III
Transport document description (ADN) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Allyl cyclohexylpropionate), 9, III
Transport document description (RID) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Allyl cyclohexylpropionate), 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 9
Danger labels (ADR) : 9



IMDG

Transport hazard class(es) (IMDG) : 9

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Danger labels (IMDG) : 9



IATA

Transport hazard class(es) (IATA) : 9

Danger labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9

Danger labels (ADN) : 9



RID

Transport hazard class(es) (RID) : 9

Danger labels (RID) : 9



14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T4

Portable tank and bulk container special provisions (ADR) : TP1, TP29

Tank code (ADR) : LGBV

Vehicle for tank carriage : AT

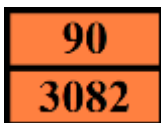
Transport category (ADR) : 3

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading
and handling (ADR) : CV13
Hazard identification number (Kemler No.) : 90
Orange plates :



Tunnel restriction code (ADR) : -
EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
Special provisions (IATA) : A97, A158, A197
ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6
Special provisions (ADN) : 274, 335, 375, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6
Special provisions (RID) : 274, 335, 375, 601
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Special provisions for carriage - Loading, unloading
and handling (RID) : CW13, CW31
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on
3(a)	Hawaiian Salt & Citrus; Isoamyl acetate ; Lime oil distilled ; Orange oil
3(b)	Hawaiian Salt & Citrus; Allyl caproate ; Aldehyde C-12 ; Allyl cyclohexylpropionate ; UNDECYLENAL ; Citronellal ; Allyl heptanoate ; Aldehyde C-16 ; Citronellol Pure ; Hexyl cinnamic aldehyde ; Cyclamal ; Geraniol ; Cuminic aldehyde ; Dihydromyrcenol ; Citral ; Geranyl acetate ; Damasco alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0) ; Neryl acetate ; Phenylmethanol ; Lime oil distilled ; Floralozone ; Triplal (Vertocitral) ; Linalool ; Benzyl benzoate ; Orange oil ; 2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol ; Hexyl salicylate
3(c)	Hawaiian Salt & Citrus; Allyl caproate ; Allyl cyclohexylpropionate ; UNDECYLENAL ; Aldehyde C-14 ; Allyl heptanoate ; Aldehyde C-16 ; Hexyl cinnamic aldehyde ; Cyclamal ; Ethylene brassylate ; Geranyl acetate ; Lime oil distilled ; Terpinyl acetate ; Verdox ; Floralozone ; Triplal (Vertocitral) ; Benzyl benzoate ; Orange oil ; Hexyl salicylate
40.	Hawaiian Salt & Citrus; Isoamyl acetate ; Lime oil distilled ; Orange oil

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Floralozone, Triplal (Vertocitral), Orange oil are listed

SZW-lijst van mutagene stoffen : Floralozone, Triplal (Vertocitral), Orange oil are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
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Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2

Hawaiian Salt & Citrus

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
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.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.