according to UK REACH Regulation

Sauna-Duftkonzentrat Zitronengras Art.-Nr. 65434, 65034, 65234, 65334

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

1.1. Product identifier

Sauna-Duftkonzentrat Zitronengras Art.-Nr. 65434, 65034, 65234, 65334

UFI: DSHW-GDKT-GJ6X-QVCE

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

Use of the substance/mixture

Dosage: give 5 ml on 1 litre of water, well mix.

1.3. Details of the supplier of the safety data sheet

Company name: Finnsa GmbH
Street: Marburger Str. 35
Place: D-36304 Alsfeld

Post-office box: 1261

D-36292 Alsfeld

Telephone: 06631-96880 Telefax: 06631-9688-96

E-mail: info@finnsa.de
Contact person: Uwe Helm
Internet: finnsa.de
Responsible Department: Verkauf

1.4. Emergency telephone 06131 19240 Giftinformationszentrum (GIZ) der Länder Rheinland-Pfalz und

number: Hessen

Further Information

Plastic bottle 100 ml

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H336 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

propan-2-ol; isopropyl alcohol; isopropanol

citra

dipentene; limonene

geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol

Citronellol

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool

Signal word: Warning

Pictograms:







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Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

or shower.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Special labelling of certain mixtures

EUH208 Contains propan-2-ol; isopropyl alcohol; isopropanol, citral, dipentene; limonene, geraniol;

(2E)-3,7-dimethylocta-2,6-dien-1-ol. May produce an allergic reaction.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Pictograms:







Hazard statements

H317

Precautionary statements

P333+P313-P501

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

according to UK REACH Regulation

Sauna-Duftkonzentrat Zitronengras Art.-Nr. 65434, 65034, 65234, 65334

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Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulatio	n)	•		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	200-661-7	603-117-00-0			
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336				
5392-40-5	citral			5 - < 10 %	
	226-394-6	605-019-00-3			
	Skin Irrit. 2, Skin Sens. 1; H315 H317				
138-86-3	dipentene; limonene				
	205-341-0	601-029-00-7			
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H317 H400 H410				
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol				
	203-377-1	603-241-00-5			
	Skin Sens. 1; H317	•	•		
106-22-9	Citronellol				
	203-375-0				
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411				
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool				
	201-134-4	603-235-00-2			
	Skin Sens. 1B; H317				

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc.	Limits, M-factors and ATE		
67-63-0	200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	45 - < 50 %	
	dermal: LD50 = 12800-13400 mg/kg; oral: LD50 = 4570-5045 mg/kg			
5392-40-5	226-394-6	citral	5 - < 10 %	
	dermal: LD50 = 2250 mg/kg; oral: LD50 = >5000 mg/kg			
106-22-9	203-375-0	Citronellol	1 - < 5 %	
	oral: LD50 = 34	450 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

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After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water. When in doubt or if symptoms are observed, get medical advice.

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

May produce an allergic reaction.

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

Carbon dioxide (CO2). Dry extinguishing powder. Foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition.

For non-emergency personnel

Remove all sources of ignition. Provide adequate ventilation. Use personal protection equipment.

For emergency responders

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Stop leak if safe to do so. Cover drains.

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

Do not rinse down with water.

Ventilate affected area.

Other information

Use non-sparking tools.

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking.

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

Further information on storage conditions

Protect against: heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Wear suitable gloves.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection necessary at: Vapour/aerosol or mist formation, insufficient ventilation, exceeding exposure limit values.

Thermal hazards

Wear anti-static footwear and clothing Flame-retardant protective clothing.

Environmental exposure controls

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: characteristic
Odour threshold: not determined

Melting point/freezing point:

Boiling point or initial boiling point and

not determined
not determined

boiling range:

Flammability: Flammable Lower explosion limits: not determined Upper explosion limits: not determined 24 °C Flash point: Auto-ignition temperature: not determined Decomposition temperature: not determined 5 - 6 pH-Value (at 20 °C): Viscosity / kinematic: not determined Water solubility: **Immiscible**

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

Vapour pressure:

Density:

Relative vapour density:

Particle characteristics:

not determined

not determined

not determined

not determined

not determined

not determined

not applicable

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

Danger of explosion: Vapours can form explosive mixtures with air.

Other safety characteristics

Sublimation point: not determined

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Vapours can form explosive mixtures with air.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Heat. UV-radiation/sunlight.

10.5. Incompatible materials

Oxidizing agent. Pyrophoric or self-heating substances.

10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
	oral	LD50 4570- 5045 mg/kg	Rat.			
	dermal	LD50 12800- 13400 mg/kg	Rabbit			
5392-40-5	citral					
	oral	LD50 >5000 mg/kg				
	dermal	LD50 2250 mg/kg				
106-22-9	Citronellol	Citronellol				
	oral	LD50 3450 mg/kg	Ratte			

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (citral; dipentene; limonene; geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol;

Citronellol; linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool)

Contains propan-2-ol; isopropyl alcohol; isopropanol, citral, dipentene; limonene, geraniol;

(2E)-3,7-dimethylocta-2,6-dien-1-ol. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (propan-2-ol; isopropyl alcohol; isopropanol)

STOT-repeated exposure

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

Aspiration hazard

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

Information on likely routes of exposure

oral, Skin contact, Eye contact, Inhalation.

Additional information on tests

The evaluation was carried out according to the calculation method of the Preparations Directive.

- Phototoxicity: none

11.2. Information on other hazards

Endocrine disrupting properties

according to UK REACH Regulation

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This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Toxic to aquatic organisms.

12.2. Persistence and degradability

This information is not available.

12.3. Bioaccumulative potential

This information is not available.

12.4. Mobility in soil

This information is not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. not applicable

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Wash with plenty of water. cleaning agent: Water (with cleaning agent).

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Isopropylalkohol(Isopropanol))

3 14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 3 Classification code: F1 **Special Provisions:** 274 601 Limited quantity: LQ7 Excepted quantity: E1 Transport category: Hazard No: 33 Tunnel restriction code: D/E

Other applicable information (land transport)

Special provisions: 274 601 640H

E1

according to UK REACH Regulation

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Transport category: 3
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALKOHOL))

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3Classification code:F1Special Provisions:274 601Limited quantity:5 LExcepted quantity:E1

Marine transport (IMDG)

14.1. UN number o<u>r ID number:</u> UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL

ALCOHOL))

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3Marine pollutant:•

Special Provisions: 223 274 955

Other applicable information (marine transport)

Special provisions: 223, 330, 274, 944, 955

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL

ALCOHOL))

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3Special Provisions:A3Limited quantity Passenger:10 LPassenger LQ:Y344Excepted quantity:E1

IATA-packing instructions - Passenger:309IATA-max. quantity - Passenger:60 LIATA-packing instructions - Cargo:310IATA-max. quantity - Cargo:220 L

Other applicable information (air transport)

E1 Y309 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: dipentene; limonene

14.6. Special precautions for user

Flammable liquids

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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Other applicable information

Hazchem code: •3Y

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Directive 2004/42/EC on VOC in 412,20 g/l

paints and varnishes:

Information according to Directive

P5c FLAMMABLE LIQUIDS

2012/18/EU (SEVESO III):

Additional information: E2

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

according to UK REACH Regulation

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Abbreviations and acronyms

Flam. Liq: Flammable liquids Skin Irrit: Skin irritation Eye Irrit: Eye irritation Skin Sens: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure

Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging

EU: European Union

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

REACh: Registration, Evaluation and Authorization of Chemicals

UN: United Nations

PBT: Persistent, Bioaccumulative, Toxic SVHC: Substance of Very High Concern vPvB: very Persistent, very Bioaccumulative

ATE: Acute Toxicity Estimates
BCF: Bio-Concentration Factor
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

VOC: Volatile Organic Compounds

DIN: Deutsches Institut für Normung e.V. (German Institute for Standardization)

EN: European Standard

ISO: International Organization for Standardization

IUCLID: International Uniform ChemicaL Information Database

LC50: Lethal Concentration, 50 %

LD50: Lethal Dose, 50 % LL50: Lethal Loading, 50 %

OECD: Organisation for Economic Co-operation and Development

EC50: Effective Concentration 50 % M-Faktor: Multiplication Factor EL50: Effect Loading, 50 %

ErC50: Effective Concentration 50 %, growth rate

M-Faktor: Multiplication Factor

NOEC: No Observed Effect Concentration

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

DGR: Dangerous Goods Regulations

EmS: Emergency Schedules

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organization

IE: Industrial Emissions

IMDG: International Maritime Code for Dangerous Goods

LQ: Limited Quantity

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

MFAG: Medical First Aid Guide

RID: Regulations concerning the International carriage of Dangerous goods by rail

TI: Technical Instructions

according to UK REACH Regulation

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Key literature references and sources for data

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). (v.1.2, 2013)

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

elevanii n anu Eu	n statements (number and run text)
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.
EUH208	Contains propan-2-ol; isopropyl alcohol; isopropanol, citral, dipentene; limonene, geraniol;
	(2E)-3,7-dimethylocta-2,6-dien-1-ol. May produce an allergic reaction.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)