Safety data sheet

In accordance with 1907/2006 annex II and 1272/2008
(All references to EU regulations and directives are abbreviated into only the numeric term)
Revision date 2023-04-17
Replaces SDS issued 2022-07-15
Version number 2.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name	Tork Constant Air Freshener Breeze
Article number	257010
UFI:	3XGD-QFAG-161E-C5ER

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

Identified uses	Air freshener

1.3. Details of the supplier of the safety data sheet

Company	Essity Hygiene and Health AB (previously SCA Hygiene Products AB) SE-40503 Göteborg Sweden
Telephone	+46 (0)31 746 00 00 +44 1 582 677 400
E-mail	info@essity.com
Website	www.essity.com

1.4. Emergency telephone number

Phone number for emergencies: 999 or 112. The numbers are available 24/7.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Skin. Sens. 1, H317
Aquatic Chronic 3, H412
(See section 16)

2.2. Label elements

Hazard pictogram

Signal word	Warning
Hazard statements	
H317	May cause an allergic skin reaction
H412	Harmful to aquatic life with long lasting effects
Precautionary statements	
P261	Avoid breathing mist, vapours, or spray
P273	Avoid release to the environment
P280	Wear protective gloves
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P362+P364	Take off contaminated clothing and wash it before reuse
P501	Dispose of contents and container to authorised waste disposal facility

Supplemental hazard information

Contains: 4-tert-BUTYLCYCLOHEXYL ACETATE, LAVENDER, LAVANDULA HYBRIDA ABRIAL, EXT., EUGENOL, CITRAL, CINEOLE, 2-METHYLDECAN-1-AL, 2,4-DIMETHYL CYCLOHEX-3-ENE-1-CARBALDEHYDE, UNDEC-10-ENAL, UNDECENAL, 1-(2,6,6-TRIMETHYLCYCLOHEX-2-EN-1-YL)BUT-2-ENONE, BENZENE, 1-(CYCLOPROPYLMETHYL)-4-METHOXY-, 1-(5,5-DIMETHYL-1-CYCLOHEXEN-1-YL)PENT-4-EN-1-ONE

2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

The product does not contain any substances identified as having endocrine disruptive properties in accordance with the criteria set out in (EU) 2017/2100 or (EU) 2018/605.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
METHYL BENZOATE		
CAS No: 93-58-3 EC No: 202-259-7 REACH: 01-2119969268-21	Acute Tox. 4; H302	≥5 - <10 %
2,6-DIMETHYLOCT-7-EN-2-OL		
CAS No: 18479-58-8 EC No: 242-362-4 REACH: 01-2119457274-37	Skin Irrit. 2, Eye Irrit. 2; H315, H319	≥1 - <5 %
4-tert-BUTYLCYCLOHEXYL ACETATE		
CAS No: 32210-23-4 EC No: 250-954-9 REACH: 01-2119976286-24-0001	Skin. Sens. 1B; H317	≥1 - <5 %
ALLYL (CYCLOHEXYLOXY)ACETATE		
CAS No: 68901-15-5 EC No: 272-657-3 REACH: 01-2120770514-54	Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1; H302, H400, H410	1 - 2 %
IONONE, METHYL-		
CAS No: 1335-46-2 EC No: 215-635-0 REACH: 01-2119471851-35	Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2; H315, H319, H411	1 - 2 %
LAVENDER, LAVANDULA HYBRIDA ABRIAL, EXT.		
CAS No: 93455-96-0 EC No: 297-384-7 REACH: 01-2120736147-55	Eye Irrit. 2, Skin. Sens. 1B, Aquatic Chronic 3; H319, H317, H412	≥1 - <2.5 %
EUGENOL		
CAS No: 97-53-0 EC No: 202-589-1	Eye Irrit. 2, Skin. Sens. 1B; H319, H317	≥0.1 - <1 %
CITRAL		
CAS No: 5392-40-5 EC No: 226-394-6 Index No: 605-019-00-3 REACH: 01-2119462829-23	Skin Irrit. 2, Eye Irrit. 2, Skin. Sens. 1; H315, H319, H317	≥0.1 - <1 %

CINEOLE		
CAS No: 470-82-6 EC No: 207-431-5 REACH: 01-2119967772-24	Flam. Liq. 3, Eye Irrit. 2, Skin. Sens. 1B; H226, H319, H317	≥0.1 - <1 %
2-METHYLDECAN-1-AL		
CAS No: 19009-56-4 EC No: 242-745-6	Skin Irrit. 2, Skin. Sens. 1B, Aquatic Chronic 2; H315, H317, H411	≥0.25 - <1 %
2,4-DIMETHYL CYCLOHEX-3-ENE-1-CARBALDEHYDE		
CAS No: 68039-49-6 EC No: 268-264-1	Skin Irrit. 2, Skin. Sens. 1, Aquatic Chronic 2; H315, H317, H411	≥0.25 - <1 %
UNDEC-10-ENAL		
CAS No: 112-45-8 EC No: 203-973-1 REACH: 01-2119980959-11	Skin. Sens. 1B, Aquatic Chronic 3; H317, H412	≥0.25 - <1 %
UNDECENAL		
CAS No: 1337-83-3	Acute Tox. 4, Skin. Sens. 1B, Aquatic Chronic 3; H332, H317, H412	≥0.1 - <0.25 %
1-(2,6,6-TRIMETHYLCYCLOHEX-2-EN-1-YL)BUT-2-ENONE		
CAS No: 24720-09-0 EC No: 246-430-4 REACH: 01-2120105799-47	Acute Tox. 4, Skin. Sens. 1B, Aquatic Chronic 2; H302, H317, H411	≥0.1 - <0.25 %
BENZENE, 1-(CYCLOPROPYLMETHYL)-4-METHOXY-		
CAS No: 16510-27-3 EC No: 444-110-0 REACH: 01-0000018728-58	Eye Irrit. 2, Skin. Sens. 1B, Aquatic Chronic 2; H319, H317, H411	≥0.1 - <0.25 %
1-(5,5-DIMETHYL-1-CYCLOHEXEN-1-YL)PENT-4-EN-1-ONE		
CAS No: 56973-85-4 EC No: 944-482-9 REACH: 01-2120739840-52	Skin. Sens. 1B, Aquatic Chronic 2; H317, H411	≥0.1 - <0.25 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Generally

In case of concern, or if symptoms occur, call a doctor/physician.

Upon breathing in

Fresh air and rest. If symptoms persist seek medical advice.

Upon eye contact

Remove contact lenses immediately if possible.

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor/ophthalmologist.

Upon skin contact

Remove contaminated clothing.

Wash the skin with soap and water.

If symptoms occur, contact a physician.

Upon ingestion

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

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

Upon skin contact

Rash and itching.

Allergic reactions.

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

Symptomatic treatment.

Upon contact with a doctor, make sure to have the label or this safety data sheet with you.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Recommended extinguishing agents

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

5.2. Special hazards arising from the substance or mixture

Gases detrimental to health can be spread in case of fire.

Note, risk for discharge of environmentally harmful substances.

Avoid that water used for extinguishing fire reaches drains. Water used for extinguishing fire should be handled according to current regulations.

5.3. Advice for firefighters

Protective measures should be taken regarding other material at the site of the fire.

Contain and collect extinguishing liquid.

In case of fire use proper breathing apparatus.

Wear full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).

Avoid inhalation and exposure to skin and eyes.

Keep unauthorized and unprotected people at a safe distance.

Use recommended safety equipment, see section 8.

Ensure good ventilation.

6.2. Environmental precautions

Avoid release to drains, soil or watercourses.

Dam up the spillage to prevent it reaching street sewers or flowing into the ground.

Always contact the fire department when accidental spillage of this product occurs.

6.3. Methods and material for containment and cleaning up

Absorb the liquid with an inert absorbent, vermiculite, for example. Collect the material for disposal at a waste disposal facility.

6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Take the necessary preventive and protective measures for safe handling.
Store this product separately from food items and keep it out of the reach of children and pets.
Do not inhale the product and avoid exposure to skin, eyes and clothing.
Do not eat, drink or smoke in premises where this product is handled.
Wash your hands after using the product.
Remove contaminated clothing.
Wash contaminated clothing before reuse.
Use recommended safety equipment, see section 8.
Implement appropriate engineering controls if necessary, see Section 8.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.
This product should be stored well out of reach of young children and kept safely apart from products intended for consumption.
Keep out of reach for children.
Store tightly, in original packaging.
Must not be stored close to ignition sources.
Store in a well-ventilated space.
Stored at 10-30°C.
Do not store in direct sunlight.

7.3. Specific end use(s)

See identified uses in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. National limit values

All ingredients (cf. Section 3) lack occupational exposure limit values.

DNEL
CITRAL

	Type of exposure	Route of exposure	Value
Consumer	Chronic Systemic	Inhalation	2.7 mg/m^3
Worker	Chronic Systemic	Dermal	1.7 mg/kg bw
Worker	Chronic Local	Dermal	0.14 mg/kg bw
Worker	Chronic Systemic	Inhalation	9 mg/m^3
Consumer	Chronic Local	Dermal	0.14 mg/cm^2
Consumer	Chronic Systemic	Oral	0.6 mg/kg bw
Consumer	Chronic Systemic	Dermal	1 mg/kg bw

PNEC
CITRAL

Environmental protection target	PNEC value
Fresh water	0.00678 mg/L
Freshwater sediments	0.125 mg/kg
Marine water	0.0067 mg/L
Marine sediments	0.0125 mg/kg
Microorganisms in sewage treatment	1.6 mg/L
Soil (agricultural)	0.0209 mg/kg dw
Intermittent	0.0678 mg/L

8.2. Exposure controls

The risks posed by the product or its constituents must be considered in the task specific risk assessment, in accordance with current working environment legislation. The risk assessment should be reviewed regularly and updated if necessary.

8.2.1. Appropriate engineering controls

The ventilation in the workplace must ensure an air quality that meets the requirements of the current working environment legislation. Local exhaust ventilation should be used to remove airborne contaminants at the source.
Eye-rinsing facilities shall be available at the workplace.

Eye/face protection

Use protective glasses with tight seals according to standard EN166.

Skin protection

Use suitable protective clothing.
Use protective gloves fulfilling the standard EN374 if there is a risk of direct contact.
During continuous contact use gloves with a minimum breakthrough time of at least 240 minutes, preferably over 480 minutes.
The most suitable protective glove should be chosen in consultation with the glove supplier, taking into account the risk assessment for the specific task and the properties of the chemicals involved. Note that the breakthrough time of the material is affected by the duration of the exposure, temperature conditions, abrasion, etcetera.
Based on the chemical properties of the product, the following glove materials are recommended (EN 374):.
– Butyl rubber.
– Nitrile rubber.

Respiratory protection

Use appropriate respiratory protective equipment in case of insufficient ventilation.
The most appropriate respiratory protective equipment should be decided in consultation with the appointed safety representative, taking into account the risk assessment for the specific task.
Based on the physical and chemical properties of the product, the following filter type(s) and/or filter combination(s) are recommended:.
– ABEK-P3.

8.2.3. Environmental exposure controls

Work with the product should take place in such a way that the product does not get into drains, waterways, soil and air.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

(a) Physical state	liquid Form: liquid
(b) Colour	colourless to pale yellow
(c) Odour	fruity
(d) Melting point/freezing point	Not indicated
(e) Boiling point or initial boiling point and boiling range	Not indicated
(f) Flammability	Not indicated
(g) Lower and upper explosion limit	Not indicated
(h) Flash point	66 °C
(i) Auto-ignition temperature	Not indicated
(j) Decomposition temperature	Not indicated
(k) pH	Not indicated
(l) Kinematic viscosity	Not indicated
(m) Solubility	Solubility in water: Insoluble
(n) Partition coefficient n-octanol/water (log value)	Not indicated
(o) Vapour pressure	2.002 hPa (20°C)
(p) Density and/or relative density	0.9373 g/cm^3 (20°C)
(q) Relative vapour density	Not indicated
(r) Particle characteristics	Not indicated

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not indicated

9.2.2. Other safety characteristics

Not indicated

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

10.2. Chemical stability

The product is stable at normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known during normal use.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Information on possible health hazards are based on experience and / or toxicological properties of several components in the product.

Acute toxicity

The product is not classified as acutely toxic.

2,6-DIMETHYLOCT-7-EN-2-OL

LD50 rat 24h: 3600 mg/kg Orally

Skin corrosion/irritation

The product is not classified for skin corrosion/irritation.

Serious eye damage/irritation

The product is not classified as irritant to the eyes.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

The product is not classified as mutagen.

Carcinogenicity

The product is not classified as carcinogenic.

Reproductive toxicity

The product is not classified as a reproductive toxicant.

STOT-single exposure

The product is not classified for specific organ toxicity after single exposure.

STOT-repeated exposure

The product is not classified for specific organ toxicity after repeated exposure.

Aspiration hazard

The product is not classified as being toxic for aspiration.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

The product does not contain any substances identified as having endocrine disruptive properties in accordance with the criteria set out in (EU) 2017/2100 or (EU) 2018/605.

11.2.2. Other information

Not indicated.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Prevent release on land, in water and drains.
Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

There is no information regarding persistence or degradability.

12.3. Bioaccumulative potential

There is no information regarding bioaccumulation.

12.4. Mobility in soil

Information about mobility in nature is not available.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Endocrine disrupting properties

The product does not contain any substances identified as having endocrine disruptive properties in accordance with the criteria set out in (EU) 2017/2100 or (EU) 2018/605.

12.7. Other adverse effects

No known effects or hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste handling of the product

Avoid discharge into sewers.

Discarded products must be disposed of as hazardous waste in accordance with regulations.

Not completely emptied packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely emptied packaging can be recycled.

See directive 2008/98/EC on waste. Observe national or regional provisions on waste management.

SECTION 14: TRANSPORT INFORMATION

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

14.1. UN number or ID number

Not classified as dangerous goods

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

14.8 Other transport information

Not applicable

SECTION 15: REGULATORY INFORMATION

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

Not indicated.

15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16: OTHER INFORMATION

16a. Indication of where changes have been made to the previous version of the safety data sheet

Revisions of this document

Earlier versions

2022-07-15 Changes in section(s) 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12.

16b. Legend to abbreviations and acronyms used in the safety data sheet

Full texts for Hazard Class and Category Code mentioned in section 3

Acute Tox. 4	Acute toxicity (oral), Hazard Category 4 - Acute Tox. 4, H302 - Harmful if swallowed
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2 - Skin Irrit. 2, H315 - Causes skin irritation
Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2 - Eye Irrit. 2, H319 - Causes serious eye irritation
Skin. Sens. 1B	Respiratory or skin sensitisation, Sensitisation — Skin, hazard category 1B - Skin. Sens. 1B, H317 - May cause an allergic skin reaction
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1 - Aquatic Acute 1, H400 - Very toxic to aquatic life
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1 - Aquatic Chronic 1, H410 - Very toxic to aquatic life with long lasting effects
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2 - Aquatic Chronic 2, H411 - Toxic to aquatic life with long lasting effects
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3 - Aquatic Chronic 3, H412 - Harmful to aquatic life with long lasting effects
Skin. Sens. 1	Respiratory or skin sensitisation, Sensitisation — Skin, hazard category 1 - Skin. Sens. 1, H317 - May cause an

	allergic skin reaction
Flam. Liq. 3	Flammable liquids, Hazard Category 3 - Flam. Liq. 3, H226 - Flammable liquid and vapour

Explanations of the abbreviations in Section 14

ADR	European Agreement concerning the International Transport of Dangerous Goods by Road
RID	Regulations concerning the International Transport of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods Code
ICAO	International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA	The International Air Transport Association

16c. Key literature references and sources for data

Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I , as updated to 2023-04-17.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

1907/2006	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
1272/2008	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
2008/98/EC	DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I , where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI .

16e. List of relevant hazard statements and/or precautionary statements

Full texts for hazard statements mentioned in section 3

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause an allergic skin reaction
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
H226	Flammable liquid and vapour
H332	Harmful if inhaled

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

Warning for misuse

Not indicated.

Other relevant information

Not indicated

Editorial information

This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, www.kemrisk.se

Safety data sheet

In accordance with 1907/2006 annex II and 1272/2008
(All references to EU regulations and directives are abbreviated into only the numeric term)
Issued 2022-07-14
Version number 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name	Tork Constant Air Freshener Blossom
UFI:	ESGD-PFXP-E61E-1G8M

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

Identified uses	Air freshener

1.3. Details of the supplier of the safety data sheet

Company	Essity Hygiene and Health AB (previously SCA Hygiene Products AB) SE-40503 Göteborg Sweden
Telephone	+46 (0)31 746 00 00 +44 1 582 677 400
E-mail	info@essity.com
Website	www.essity.com

1.4. Emergency telephone number

Phone number for emergencies: 999 or 112. The numbers are available 24/7.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Skin Irrit. 2, H315
Skin. Sens. 1, H317
Eye Irrit. 2, H319
(See section 16)

2.2. Label elements

Hazard pictogram

Signal word	Warning
Hazard statements	
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
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 and eye protection
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 and container to authorised waste disposal facility

Supplemental hazard information

Contains: CINEOLE, CITRAL, REACTION MASS OF BENZENEPROPANAL, REACTION MASS OF 3,5-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE AND 2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE, 2,6-DIMETHYLHEPT-5-ENAL, L-CARVONE, PHENOL, 2-METHOXY-4-(2-PROPENYL)-, UNDEC-10-ENAL, REACTION MASS OF REL-{(1R,2S)-1-METHYL-2-[(2R)-5-METHYLHEX-4-EN-2-YL]CYCLOPROPYL}METHANOL AND REL-{(1S,2R)-1-METHYL-2-[(2R)-5-METHYLHEX-4-EN-2-YL]CYCLOPROPYL}METHANOL, DODECANAL, 1-(2,6,6-TRIMETHYLCYCLOHEXA-1,3-DIENYL)-2-BUTEN-1-ONE, (E)-1-(2,6,6-TRIMETHYL-1,3-CYCLOHEXADIEN-1-YL)-2-BUTEN-1-ONE

2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
BENZYL ACETATE		
CAS No: 140-11-4 EC No: 205-399-7 REACH: 01-2119638272-42	Aquatic Chronic 3; H412	≥20 - <25 %
2,6-DIMETHYLOCT-7-EN-2-OL		
CAS No: 18479-58-8 EC No: 242-362-4 REACH: 01-2119457274-37	Skin Irrit. 2, Eye Irrit. 2; H315, H319	≥5 - <10 %
3,7-DIMETHYLOCT-6-EN-3-OL		
CAS No: 18479-51-1 EC No: 242-359-8 REACH: 01-2120738993-40	Skin Irrit. 2; H315	≥5 - <10 %
CINEOLE		
CAS No: 470-82-6 EC No: 207-431-5 REACH: 01-2119967772-24	Flam. Liq. 3, Eye Irrit. 2, Skin. Sens. 1B; H226, H319, H317	≥1 - <5 %
CITRAL		
CAS No: 5392-40-5 EC No: 226-394-6 Index No: 605-019-00-3 REACH: 01-2119462829-23	Skin Irrit. 2, Eye Irrit. 2, Skin. Sens. 1; H315, H319, H317	≥1 - <5 %
ETHYL ENANTATE		
CAS No: 106-30-9 EC No: 203-382-9 REACH: 01-2120104876-54	Aquatic Acute 1, Aquatic Chronic 3; H400, H412	≥0.25 - <1 %
REACTION MASS OF BENZENEPROPANAL		
EC No: 916-329-6 REACH: 01-2120758796-34	Skin Irrit. 2, Skin. Sens. 1B, Aquatic Acute 1, Aquatic Chronic 2; H315, H317, H400, H411	≥0.25 - <1 %
REACTION MASS OF 3,5-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE AND 2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE		
EC No: 943-728-2 REACH: 01-2119982384-28	Skin Irrit. 2, Skin. Sens. 1, Aquatic Chronic 2; H315, H317, H411	≥0.25 - <1 %

2,6-DIMETHYLHEPT-5-ENAL		
CAS No: 106-72-9 EC No: 203-427-2 REACH: 01-2120270305-62	Skin. Sens. 1B; H317	≥0.1 - <1 %
L-CARVONE		
CAS No: 6485-40-1 EC No: 229-352-5 Index No: 606-148-00-8 REACH: 01-2119962458-25	Skin. Sens. 1B; H317	≥0.1 - <1 %
PHENOL, 2-METHOXY-4-(2-PROPENYL)-		
CAS No: 97-53-0 EC No: 202-589-1 REACH: 01-2119971802-33	Eye Irrit. 2, Skin. Sens. 1B; H319, H317	≥0.1 - <1 %
UNDEC-10-ENAL		
CAS No: 112-45-8 EC No: 203-973-1 REACH: 01-2119980959-11	Skin Irrit. 2, Eye Irrit. 2, Skin. Sens. 1B, Aquatic Chronic 3; H315, H319, H317, H412	≥0.1 - <0.25 %
REACTION MASS OF REL-{(1R,2S)-1-METHYL-2-[(2R)-5-METHYLHEX-4-EN-2-YL]CYCLOPROPYL}METHANOL AND REL-{(1S,2R)-1-METHYL-2-[(2R)-5-METHYLHEX-4-EN-2-YL]CYCLOPROPYL}METHANOL		
EC No: 942-597-9 REACH: 01-2120094067-52	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin. Sens. 1B, Aquatic Chronic 2; H312, H315, H319, H317, H411	≥0.1 - <0.25 %
DODECANAL		
CAS No: 112-54-9 EC No: 203-983-6 REACH: 01-2119969441-33	Skin Irrit. 2, Eye Irrit. 2, Skin. Sens. 1B; H315, H319, H317	≥0.1 - <1 %
1-(2,6,6-TRIMETHYLCYCLOHEXA-1,3-DIENYL)-2-BUTEN-1-ONE		
CAS No: 23696-85-7 EC No: 245-833-2	Skin Irrit. 2, Skin. Sens. 1A, Aquatic Chronic 2; H315, H317, H411	≥0.025 - <0.1 %
(E)-1-(2,6,6-TRIMETHYL-1,3-CYCLOHEXADIEN-1-YL)-2-BUTEN-1-ONE		
CAS No: 23726-93-4 EC No: 245-844-2 REACH: 01-2120105798-49	Skin Irrit. 2, Skin. Sens. 1A, Aquatic Chronic 2; H315, H317, H411	≥0.025 - <0.1 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Generally

In case of concern, or if symptoms occur, call a doctor/physician.

Upon breathing in

Fresh air and rest. If symptoms persist seek medical advice.

Upon eye contact

Remove contact lenses immediately if possible.

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor/ophthalmologist.

Upon skin contact

Remove contaminated clothing.

Wash the skin with soap and water.

If symptoms occur, contact a physician.

Wash contaminated clothing before reuse.

Upon ingestion

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

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

Upon eye contact

Irritation.

Upon skin contact

Irritation.

Allergic reactions.

Upon ingestion

May cause irritation of mucous membranes, nausea and vomiting.

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

Symptomatic treatment.

Upon contact with a doctor, make sure to have the label or this safety data sheet with you.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Recommended extinguishing agents

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

5.2. Special hazards arising from the substance or mixture

Gases detrimental to health can be spread in case of fire.

5.3. Advice for firefighters

Protective measures should be taken regarding other material at the site of the fire.

In case of fire use proper breathing apparatus.

Wear full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation and exposure to skin and eyes.

Keep unauthorized and unprotected people at a safe distance.

Use recommended safety equipment, see section 8.

Ensure good ventilation.

6.2. Environmental precautions

Avoid release to drains, soil or watercourses.

6.3. Methods and material for containment and cleaning up

Absorb the liquid with an inert absorbent, vermiculite, for example. Collect the material for disposal at a waste disposal facility.

6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Store this product separately from food items and keep it out of the reach of children and pets.

Avoid spillage, inhalation and contact with eyes and skin.

Do not eat, drink or smoke in premises where this product is handled.

Wash your hands after using the product.

Remove contaminated clothing.

Wash contaminated clothing before reuse.

Keep away from incompatible products.

Use recommended safety equipment, see section 8.

Implement appropriate engineering controls if necessary, see Section 8.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.
Store separately from food and animal fodder, incl. utensils or surfaces which have been in contact with these things.
Keep out of reach for children.
Always use sealed and visibly labeled packages.
Store tightly, in original packaging.
Store in a well-ventilated space.
Store in dry and cool area.

7.3. Specific end use(s)

See identified uses in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. National limit values

All ingredients (cf. Section 3) lack occupational exposure limit values.

DNEL
CITRAL

	Type of exposure	Route of exposure	Value
Consumer	Chronic Systemic	Inhalation	2.7 mg/m^3
Worker	Chronic Systemic	Dermal	1.7 mg/kg bw
Worker	Chronic Local	Dermal	0.14 mg/kg bw
Worker	Chronic Systemic	Inhalation	9 mg/m^3
Consumer	Chronic Local	Dermal	0.14 mg/cm^2
Consumer	Chronic Systemic	Oral	0.6 mg/kg bw
Consumer	Chronic Systemic	Dermal	1 mg/kg bw

2,6-DIMETHYLHEPT-5-ENAL

	Type of exposure	Route of exposure	Value
Worker	Acute Local	Inhalation	52.89 mg/m^3
Consumer	Chronic Systemic	Inhalation	1.74 mg/m^3
Worker	Chronic Systemic	Dermal	2 mg/kg bw
Worker	Acute Local	Dermal	425 mg/kg bw
Worker	Acute Systemic	Inhalation	21.16 mg/m^3
Worker	Acute Systemic	Dermal	170 mg/kg bw
Worker	Chronic Local	Inhalation	17.63 mg/m^3
Worker	Chronic Local	Dermal	141.7 mg/kg bw
Worker	Chronic Systemic	Inhalation	7.05 mg/m^3

Consumer	Acute Local	Inhalation	13.04 mg/m^3
Consumer	Acute Local	Dermal	212.5 mg/kg bw
Consumer	Acute Systemic	Inhalation	5.22 mg/m^3
Consumer	Acute Systemic	Dermal	85 mg/kg bw
Consumer	Chronic Local	Inhalation	4.35 mg/m^3
Consumer	Chronic Local	Dermal	70.83 mg/kg bw
Consumer	Chronic Systemic	Oral	1 mg/kg bw
Consumer	Chronic Systemic	Dermal	1 mg/kg bw

PNEC
CITRAL

Environmental protection target	PNEC value
Fresh water	0.00678 mg/L
Freshwater sediments	0.125 mg/kg
Marine water	0.0067 mg/L
Marine sediments	0.0125 mg/kg
Microorganisms in sewage treatment	1.6 mg/L
Soil (agricultural)	0.0209 mg/kg dw
Intermittent	0.0678 mg/L

2,6-DIMETHYLHEPT-5-ENAL

Environmental protection target	PNEC value
Fresh water	0.0023 mg/L
Freshwater sediments	0.045 mg/kg dw
Marine water	0.00023 mg/L
Marine sediments	0.0045 mg/kg dw
Microorganisms in sewage treatment	10 mg/L
Soil (agricultural)	0.021 mg/kg dw

8.2. Exposure controls

The risks posed by the product or its constituents must be considered in the task specific risk assessment, in accordance with current working environment legislation. The risk assessment should be reviewed regularly and updated if necessary.

8.2.1. Appropriate engineering controls

The ventilation in the workplace must ensure an air quality that meets the requirements of the current working environment legislation. Local exhaust ventilation should be used to remove airborne contaminants at the source.
Eye-rinsing facilities shall be available at the workplace.

Eye/face protection

Use protective glasses with tight seals according to standard EN166.

Skin protection

Use suitable protective clothing.

Use protective gloves fulfilling the standard EN374 if there is a risk of direct contact.

During continuous contact use gloves with a minimum breakthrough time of at least 240 minutes, preferably over 480 minutes.

The most suitable protective glove should be chosen in consultation with the glove supplier, taking into account the risk assessment for the specific task and the properties of the chemicals involved. Note that the breakthrough time of the material is affected by the duration of the exposure, temperature conditions, abrasion, etcetera.

Based on the chemical properties of the product, the following glove materials are recommended (EN 374):.

– Nitrile rubber.

– Butyl rubber.

– Polyvinyl chloride PVC.

Respiratory protection

Use appropriate respiratory protective equipment in case of insufficient ventilation.

The most appropriate respiratory protective equipment should be decided in consultation with the appointed safety representative, taking into account the risk assessment for the specific task.

Based on the physical and chemical properties of the product, the following filter type(s) and/or filter combination(s) are recommended:.

– A/P2.

8.2.3. Environmental exposure controls

Work with the product should take place in such a way that the product does not get into drains, waterways, soil and air.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

(a) Physical state	liquid Form: liquid
(b) Colour	light yellow
(c) Odour	fruity
(d) Melting point/freezing point	Not indicated
(e) Boiling point or initial boiling point and boiling range	Not indicated
(f) Flammability	Not indicated
(g) Lower and upper explosion limit	Not indicated
(h) Flash point	67 °C
(i) Auto-ignition temperature	Not indicated
(j) Decomposition temperature	Not indicated
(k) pH	Not indicated
(l) Kinematic viscosity	Not indicated
(m) Solubility	Not indicated
(n) Partition coefficient n-octanol/water (log value)	Not indicated
(o) Vapour pressure	0.541 hPa (20°C)
(p) Density and/or relative density	998.21 kg/m^3 (20°C)
(q) Relative vapour density	Not indicated
(r) Particle characteristics	Not indicated

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not indicated

9.2.2. Other safety characteristics

Not indicated

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

10.2. Chemical stability

The product is stable at normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known during normal use.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Information on possible health hazards are based on experience and / or toxicological properties of several components in the product.

Acute toxicity

The product is not classified as acutely toxic.

2,6-DIMETHYLOCT-7-EN-2-OL

LD50 rat 24h: 3600 mg/kg Orally

Skin corrosion/irritation

May cause skin irrition.

Serious eye damage/irritation

Eye contact may cause burning pain or irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

The product is not classified as mutagen.

Carcinogenicity

The product is not classified as carcinogenic.

Reproductive toxicity

The product is not classified as a reproductive toxicant.

STOT-single exposure

The product is not classified for specific organ toxicity after single exposure.

STOT-repeated exposure

The product is not classified for specific organ toxicity after repeated exposure.

Aspiration hazard

The product is not classified as being toxic for aspiration.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

The product does not have any known endocrine-disrupting properties.

11.2.2. Other information

Not indicated.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Prevent release on land, in water and drains.
The product is not to be labelled as a environmental hazard. However, it is not inconceivable that large emissions, or repeated small emissions, can have a harmful effect on the environment.

12.2. Persistence and degradability

There is no information regarding persistence or degradability.

12.3. Bioaccumulative potential

There is no information regarding bioaccumulation.

12.4. Mobility in soil

Information about mobility in nature is not available.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Endocrine disrupting properties

The product does not have any known endocrine-disrupting properties.

12.7. Other adverse effects

No known effects or hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste handling of the product

Avoid discharge into sewers.
Discarded products must be disposed of as hazardous waste in accordance with regulations.
Not completely emptied packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely emptied packaging can be recycled.
See directive 2008/98/EC on waste. Observe national or regional provisions on waste management.

SECTION 14: TRANSPORT INFORMATION

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

14.1. UN number or ID number

Not classified as dangerous goods

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

14.8 Other transport information

Not applicable

SECTION 15: REGULATORY INFORMATION

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

Not indicated.

15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16: OTHER INFORMATION

16a. Indication of where changes have been made to the previous version of the safety data sheet

Revisions of this document

This is the first version

16b. Legend to abbreviations and acronyms used in the safety data sheet

Full texts for Hazard Class and Category Code mentioned in section 3

Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3 - Aquatic Chronic 3, H412 - Harmful to aquatic life with long lasting effects
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2 - Skin Irrit. 2, H315 - Causes skin irritation
Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2 - Eye Irrit. 2, H319 - Causes serious eye irritation
Flam. Liq. 3	Flammable liquids, Hazard Category 3 - Flam. Liq. 3, H226 - Flammable liquid and vapour
Skin. Sens. 1B	Respiratory or skin sensitisation, Sensitisation — Skin, hazard category 1B - Skin. Sens. 1B, H317 - May cause an allergic skin reaction
Skin. Sens. 1	Respiratory or skin sensitisation, Sensitisation — Skin, hazard category 1 - Skin. Sens. 1, H317 - May cause an allergic skin reaction
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1 - Aquatic Acute 1, H400 - Very toxic to aquatic life
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2 - Aquatic Chronic 2, H411 - Toxic to aquatic life with long lasting effects
Acute Tox. 4	Acute toxicity (dermal), Hazard Category 4 - Acute Tox. 4, H312 - Harmful in contact with skin
Skin. Sens. 1A	Respiratory or skin sensitisation, Sensitisation — Skin, hazard category 1A - Skin. Sens. 1A, H317 - May cause an allergic skin reaction

Explanations of the abbreviations in Section 14

ADR	European Agreement concerning the International Transport of Dangerous Goods by Road
RID	Regulations concerning the International Transport of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods Code
ICAO	International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA	The International Air Transport Association

16c. Key literature references and sources for data

Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I , as updated to 2022-07-14.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

1907/2006	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
1272/2008	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
2008/98/EC	DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I , where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI .

16e. List of relevant hazard statements and/or precautionary statements

Full texts for hazard statements mentioned in section 3

H412 Harmful to aquatic life with long lasting effects
H315 Causes skin irritation
H319 Causes serious eye irritation
H226 Flammable liquid and vapour
H317 May cause an allergic skin reaction
H400 Very toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects
H312 Harmful in contact with skin

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

Warning for misuse

Not indicated.

Other relevant information

Not indicated

Editorial information

This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, www.kemrisk.se