

SECTION 1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product code : BEAMZ FSMA-T Smoke Fluid Add.TROPICO

Trades code : 160.653

Product line: SMOKEFLUID

UFI: 1MJ1-E0WR-400P-26Q8

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

Liquid for producing artificial smoke

Sectors of use:

Other (Professional and/or consumer uses)[SU0]

Product category:

Perfumes, Fragrances

Process categories:

Professional Use

Uses advised against

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

Tronios BV

Bedrijvenpark Twente Noord 18

7602 KR Almelo

The Netherlands

Telefoonnummer: +31 (0)85 105 3155

e-mail: info@tronios.com

National contact: email of the competent person responsible for the Safety Data Sheet: info@tronios.com

1.4. Emergency telephone number

In the case of emergency Members of Public in England, Scotland and Wales can contact NHS 111/NHS 24 by dialling 111

In Northern Ireland contact your local GP

In Republic of Ireland contact:

Consumer poison service: tel. 01 809 2166 (8am-10pm)

Healthcare Professionals: Tel. 01 809 2566 (24h/7days)

SECTION 2. Hazards identification**2.1. Classification of the substance or mixture**

CAS miscela/blend EINECS miscela/blend REACH miscela/blend

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS07

Hazard Class and Category Code(s):

Skin Sens. 1B, Aquatic Chronic 3

Hazard statement Code(s):

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

The product, if brought into contact with skin can cause skin sensitization.

The product is dangerous to the environment as it is harmful to aquatic life with long lasting effects

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS07 - Warning

Hazard statement Code(s):

H317 - May cause an allergic skin reaction.



H412 - Harmful to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:

Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Contains:

Oxydipropanol, Linalyl acetate, Allyl 3-cyclohexylpropionate, 3-p-cumenyl-2-methylpropionaldehyde, Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-DIMETHYL-3-CYCLOHEXENE CARBOXYALDEHYDE)

UFI: 1MJ1-E0WR-400P-26Q8

2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

The mixture is not corrosive and no Serious Health Effects or Acute Health Toxicity hazards are expected.

The most important adverse physical-chemical human health and environmental effects are listed in sections 9 to 12 of this safety data sheet.

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Allergens contained:

Benzyl alcohol = 0,001

Limonene = 0,001

Linalool = 0,002

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Oxydipropanol	>= 10 < 20%	ATE oral = 14.850,0 mg/kg ATE dermal = 5.010,0 mg/kg ATE inhal = 2,3mg/l/4 h	ND	25265-71-8	246-770-3	01-2119456 811-38-000 0
p-menth-1-en-8-yl acetate - FEMA 3047	>= 1 < 5%	Aquatic Chronic 2, H411 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral = 5.075,0 mg/kg ATE inhal = 1.000,0mg/l/4 h	ND	80-26-2	201-265-7	01-2119980 733-29-000 0
Linalyl acetate - FEMA 2636	>= 1 < 5%	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319 ATE oral = 9.000,0 mg/kg ATE dermal = 5.000,0 mg/kg	ND	115-95-7	204-116-4	01-2119454 789-19-000 0
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	>= 1 < 5%	Eye Irrit. 2, H319; Aquatic Chronic 3, H412	ND	5413-60-5	226-501-6	01-2119934 491-39-000 0

In conformity to Regulation (EU) 2020/878

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
		Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral = 5.000,0 mg/kg ATE dermal = 2.000,0 mg/kg ATE inhal = 1,0mg/l/4 h				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl propionate	>= 1 < 5%	Aquatic Chronic 2, H411 Acute toxicity M-factor = 1 ATE oral = 5.000,0 mg/kg ATE dermal = 5.000,0 mg/kg	ND	68912-13-0	272-805-7	01-2119969 447-21-000 0
Allyl hexanoate - FEMA 2032	>= 0,1 < 1%	Acute Tox. 3, H301; Acute Tox. 3, H311; Eye Irrit. 2, H319; Acute Tox. 3, H331; Aquatic Acute 1, H400; Aquatic Chronic 3, H412 ATE oral = 218,0 mg/kg ATE dermal = 820,0 mg/kg	ND	123-68-2	204-642-4	01-2119983 573-26-000 0
Allyl 3-cyclohexylpropionate - FEMA 2026	>= 0,1 < 1%	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1B, H317; Acute Tox. 4, H332; Aquatic Chronic 1, H410 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral = 380,0 mg/kg ATE dermal = 1.600,0 mg/kg	ND	2705-87-5	220-292-5	01-2119976 355-27-000 0
3-p-cumenyl-2-methylpropionaldehyde - FEMA 2743	>= 0,1 < 1%	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 Acute toxicity M-factor = 1 ATE oral = 2.000,0 mg/kg ATE dermal = 5.000,0 mg/kg	ND	103-95-7	203-161-7	01-2119970 582-32-000 0
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE) - FEMA 4505	>= 0,1 < 1%	Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral = 3.900,0 mg/kg	ND	68039-49-6	943-728-2	01-2119982 384-28-000 0

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
		ATE dermal = 5.000,0 mg/kg				

Fractionated global values

H319	= 6,50	H315	= 3,53	H317	= 4,03	H412	= 3,84
H411	= 6,19	H312	= 0,50	H302	= 0,50	H332	= 0,50
H410	= 0,50	H301	= 0,50	H311	= 0,50	H331	= 0,50
H400	= 0,50	H226	= 0,04				

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

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

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

No data available.

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

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

SECTION 5. Firefighting measures
5.1. Extinguishing media
Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear gloves and protective clothing

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid handling the liquid with bare hands. In case of accidental contact with the product, wash your hands thoroughly with soapy water.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool place, away from sources of heat and direct exposure of sunlight.

Keep in the original container tightly closed. Do not store in open or unlabeled containers.

Keep the containers in an upright position and be careful to avoid falls or collisions.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid direct exposure to sunlight.

Keep containers away from any incompatible materials, checking section 10.

7.3. Specific end use(s)

Other (Professional and/or consumer uses):

Handle with care.

Store in ventilated area and away from heat sources.

Keep the container tightly closed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

Oxydipropanol:

TLV-TWA: 5.00 ppm

TLV-STEL: 150.00 ppm

- Substance: Oxydipropanol

DNEL

Systemic effects Long term Workers inhalation = 238 (mg/m³)

Systemic effects Long term Workers dermal = 84 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 70 (mg/m³)

Systemic effects Long term Consumers dermal = 51 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 24 (mg/kg bw/day)

PNEC

Sweet water = 0,1 (mg/l)

sediment Sweet water = 0,238 (mg/kg/sediment)

Sea water = 0,01 (mg/l)

sediment Sea water = 0,024 (mg/kg/sediment)

STP = 1000 (mg/l)

ground = 0,025 (mg/kg ground)

- Substance: p-menth-1-en-8-yl acetate

PNEC

Sweet water = 0,0069 (mg/l)

sediment Sweet water = 0,453 (mg/kg/sediment)

Sea water = 0,00069 (mg/l)

sediment Sea water = 0,045 (mg/kg/sediment)

STP = 10 (mg/l)

ground = 0,086 (mg/kg ground)

- Substance: Linalyl acetate

DNEL

Systemic effects Long term Workers inhalation = 2,75 (mg/m³)

Systemic effects Long term Workers dermal = 2,5 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 0,68 (mg/m³)

Systemic effects Long term Consumers dermal = 1,25 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 0,2 (mg/kg bw/day)

Local effects Long term Workers dermal = 8 (mg/kg bw/day)

Local effects Long term Consumers dermal = 8 (mg/kg bw/day)

Local effects Short term Workers dermal = 8 (mg/kg bw/day)

Local effects Short term Consumers dermal = 8 (mg/kg bw/day)

PNEC

Sweet water = 0,011 (mg/l)

sediment Sweet water = 0,609 (mg/kg/sediment)

Sea water = 0,001 (mg/l)

sediment Sea water = 0,061 (mg/kg/sediment)

intermittent emissions = 0,11 (mg/l)

STP = 10 (mg/l)

ground = 0,115 (mg/kg ground)

- Substance: 3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate

DNEL

Systemic effects Long term Workers inhalation = 4,93 (mg/m³)

Systemic effects Long term Workers dermal = 0,5 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 0,87 (mg/m³)

Systemic effects Long term Consumers dermal = 0,209366 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 0,5 (mg/kg bw/day)

PNEC

Sweet water = 0,0104 (mg/l)

sediment Sweet water = 0,106 (mg/kg/sediment)

Sea water = 0,00104 (mg/l)

sediment Sea water = 0,0106 (mg/kg/sediment)

intermittent emissions = 0,075 (mg/l)

STP = 2,45 (mg/l)

ground = 0,0152 (mg/kg ground)

- Substance: 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl propionate

PNEC

Sweet water = 0,091 (mg/l)

sediment Sweet water = 12,2 (mg/kg/sediment)

Sea water = 0,0091 (mg/l)

sediment Sea water = 1,22 (mg/kg/sediment)

STP = 4,8 (mg/l)

ground = 4,4 (mg/kg ground)

- Substance: Allyl hexanoate

DNEL

Systemic effects Long term Workers inhalation = 15 (mg/m³)

Systemic effects Long term Workers dermal = 4,3 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 3,7 (mg/m³)

Systemic effects Long term Consumers dermal = 2,1 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 2,1 (mg/kg bw/day)

PNEC

Sweet water = 0,0117 (mg/l)

sediment Sweet water = 0,00446 (mg/kg/sediment)

Sea water = 0,00117 (mg/l)

sediment Sea water = 0,000446 (mg/kg/sediment)

intermittent emissions = 0,00117 (mg/l)

STP = 10 (mg/l)

ground = 0,825 (mg/kg ground)

- Substance: Allyl 3-cyclohexylpropionate

DNEL

Systemic effects Long term Workers inhalation = 15 (mg/m³)

Systemic effects Long term Workers dermal = 4,3 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 3,7 (mg/m³)

Systemic effects Long term Consumers dermal = 2,1 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 2,1 (mg/kg bw/day)

PNEC

Sweet water = 0,00013 (mg/l)

sediment Sweet water = 0,02413 (mg/kg/sediment)

Sea water = 0,000013 (mg/l)

sediment Sea water = 0,002413 (mg/kg/sediment)

intermittent emissions = 0,0013 (mg/l)

STP = 0,2 (mg/l)

ground = 0,00475 (mg/kg ground)

- Substance: 3-p-cumenyl-2-methylpropionaldehyde

DNEL

Systemic effects Long term Workers inhalation = 5,83 (mg/m³)

Systemic effects Long term Workers dermal = 1,67 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 1,45 (mg/m³)

Systemic effects Long term Consumers dermal = 0,83 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 0,83 (mg/kg bw/day)

Local effects Long term Workers dermal = 0,00743 (mg/kg bw/day)

Local effects Long term Consumers dermal = 0,00372 (mg/kg bw/day)

Local effects Long term Consumers oral = 0,00743 (mg/kg bw/day)

PNEC

Sweet water = 0,00109 (mg/l)

sediment Sweet water = 0,126 (mg/kg/sediment)

Sea water = 0,00011 (mg/l)

sediment Sea water = 0,013 (mg/kg/sediment)

intermittent emissions = 0,01092 (mg/l)

STP = 1 (mg/l)

ground = 0,025 (mg/kg ground)

- Substance: Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE)
DNEL

Systemic effects Long term Workers inhalation = 1,837 (mg/m³)

Systemic effects Long term Workers dermal = 0,521 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 0,543 (mg/m³)

Systemic effects Long term Consumers dermal = 0,312 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 0,312 (mg/kg bw/day)

PNEC

Sweet water = 0,0075 (mg/l)

sediment Sweet water = 0,226 (mg/kg/sediment)

Sea water = 0,00075 (mg/l)

sediment Sea water = 0,023 (mg/kg/sediment)

intermittent emissions = 0,075 (mg/l)

STP = 10 (mg/l)

ground = 0,041 (mg/kg ground)

8.2. Exposure controls

Appropriate engineering controls:

Other (Professional and/or consumer uses):

Not expected

Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

(b) Skin protection

(i) Hand protection

Hand protection: use protective gloves:

Polychloroprene / Layer thickness 0,5 - 0,7 mm / Break through time > 480 min (level 6) / EN 374-3

Butyl-rubber / Layer thickness 0.6 - 0.8 mm / Break through time > 480 min (level 6) / EN 374

Nitrile latex / Layer thickness 1.0 mm / Break through time > 480 min (level 6)

In the Laboratory:

Nitrile latex / Layer thickness 0.1 mm / Break through time > 480 min (level 6) / EN 374

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as unpredictable. The gloves have a wear time that depends on the duration and the mode of use. General recommendation: the wearing time of protective gloves is recommended to be around 50% of the time measured in the laboratory.

(ii) Other

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Not needed for normal use.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according with good manufacturing practices, avoiding environmental dispersion. Alert the relevant authorities if case of spillage into rivers, sewers or contamination of soil or vegetation.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	Clear liquid	visivo/visual/visuel/visuell/zichtbaar
Colour	colorless	visivo/visual/visuel/visuell/zichtbaar
Odour	typical	empirico/empirical/empirique/empirisch

Physical and chemical properties	Value	Determination method
Odour threshold	not determined	
Melting point/freezing point	not determined	OECD Guideline 102
Boiling point or initial boiling point and boiling range	not determined	ASTM D86
Flammability	nonflammable	
Lower and upper explosion limit	nonflammable	
Flash point	> 65°C	ASTM D93
Auto-ignition temperature	nonflammable	DIN 51794
Decomposition temperature	irrelevant	
pH	5.00-7.50	UNI 24003
Kinematic viscosity	<= 14 mm ² /sec (40 °C)	ASTM D7042
Solubility	miscible with water	
Water solubility	miscible with water	
Partition coefficient n-octanol/water (log value)	not determined	OECD Guideline 107
Vapour pressure	not determined	
Density and/or relative density	not determined	ISO 2811-3
Relative vapour density	not determined	UNI EN 13016-1:2018
Particle characteristics	not applicable	

9.2. Other information

Content of VOC ready to use condition: 0,00 %

9.2.1 Information with regard to physical hazard classes

Irrilevant

9.2.2 Other safety characteristics

Irrilevant

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Related to contained substances:

Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE):

Heat, flames and sparks

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

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

ATE(mix) oral = 27.705,7 mg/kg

ATE(mix) dermal = 108.429,8 mg/kg

ATE(mix) inhal = 471,4 mg/l/4 h

(a) acute toxicity: based on available data, the classification criteria are not met.

(b) skin corrosion/irritation: Linalyl acetate: Skin-rabbit-Severe skin irritation-24h

India pig-skin-irritating to skin-24h

(c) serious eye damage/irritation: based on available data, the classification criteria are not met.

(d) respiratory or skin sensitisation: The product, if brought into contact with skin can cause skin sensitization.

Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE): Suspected skin sensitizer: The Toolbox profiler Protein binding alerts for skin sensitization by OASIS v1.3 gives an alert for skin sensitisation; CAESAR skin sensitisation model in VEGA (Q)SAR platform predicts that the chemical is Sensitizer (good reliability)

(e) germ cell mutagenicity: based on available data, the classification criteria are not met.

(f) carcinogenicity: Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE): Suspected carcinogen: The Toolbox profiler Carcinogenicity (genotox and nongenotox) alerts by ISS gives an alert for carcinogenicity; CAESAR Carcinogenicity model in VEGA (Q)SAR platform predicts that the chemical is Carcinogen (moderate reliability); ISS Carcinogenicity model in VEGA (Q)SAR platform predicts that the chemical is Carcinogen (moderate reliability)

(g) reproductive toxicity: Allyl 3-cyclohexylpropionate: Effect on fertility

Oral route:

No adverse effect observed NOAEL 125 mg/kg bw/day (subacute, rat)

Effect on developmental toxicity

Oral route:

No adverse effect observed NOAEL 34 mg/kg bw/day (subacute, rat)

Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE): NOAEL 25 mg/kg bw/day (subchronic, rat)

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure Oxydipropanol: NOAEL (rat): 470 - 530 mg/kg bw/day

p-menth-1-en-8-yl acetate: NOAEL (rat): 400 mg/kg bw/day

Linalyl acetate: orale

NOAEL (ratto): 117 - 160 mg/kg pc/giorno
dermico

NOAEL (ratto): 250 mg/kg pc/giorno

3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate: NOAEL (rat): 1 125 mg/kg bw/day

3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl propionate: NOAEL (rat): 1 504.6 mg/kg bw/day

Allyl hexanoate: NOAEL (rat): 214 mg/kg bw/day

NOAEL (rat): 2 500 mg/kg diet

Allyl 3-cyclohexylpropionate: NOEL (rat): 30 - 214 mg/kg bw/day

NOEL (rat): 2 500 mg/kg diet

3-p-cumenyl-2-methylpropionaldehyde: NOAEL (rabbit): 300 mg/kg bw/day

Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE): NOAEL (rat): 120 - 150 mg/kg bw/day

(j) aspiration hazard: Linalyl acetate: Inhalation-Could irritate the respiratory system.

3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate: LOAEC (mouse): 1 039.62 mg/L air

No toxicological tests were performed of this product. The health hazards were evaluated according to the test methods referred to in Regulation (EC) no 440/2008 of May 30, 2008 and subsequent amendments and in any case in accordance with article 9.2 of Regulation (EC) no 1272/2008 (CLP) of December 16, 2008.

Appear in chapters 2 and 15.

The complete toxicological data for components are available on demand.

Related to contained substances:

Oxydipropanol:

LD50 (rat) Oral (mg/kg body weight) = 14850

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5010

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 2,34

p-menth-1-en-8-yl acetate:

LD50 (rat) Oral (mg/kg body weight) = 5075

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 1000

Linalyl acetate:

LD50 (rat) Oral (mg/kg body weight) = 9000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate:

LD50 (rat) Oral (mg/kg body weight) = 5000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 1,01

3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl propionate:

LD50 (rat) Oral (mg/kg body weight) = 5000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

Allyl hexanoate:

LD50 (rat) Oral (mg/kg body weight) = 218

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 820

Allyl 3-cyclohexylpropionate:

LD50 (rat) Oral (mg/kg body weight) = 380

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 1600

3-p-cumenyl-2-methylpropionaldehyde:

LD50 (rat) Oral (mg/kg body weight) = 2000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE):

LD50 (rat) Oral (mg/kg body weight) = 3900

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

Oxydipropanol:

Short-term toxicity to fish LC50 (4 days) 1 - 46.5 g / L Short-term toxicity to aquatic invertebrates EC50 (48 h) 100 mg / L

Toxicity to aquatic algae and cyanobacteria EC50 (72 h) 100 mg / L NOEC (72 h) 100 mg / L

C(E)L50 (mg/l) = 100

NOEC (mg/l) = 100

p-menth-1-en-8-yl acetate:

Short-term toxicity to fish

LC50 (4 days) 11 mg/L
Short-term toxicity to aquatic invertebrates
EC50 (48 h) 10 mg/L
Toxicity to aquatic algae and cyanobacteria
EC50 (72 h) 4.3 - 8.1 mg/L
NOEC (72 h) 2.7 - 3.6 mg/L
C(E)L50 (mg/l) = 4,3
NOEC (mg/l) = 2,7
Linalyl acetate:
Short-term toxicity to fish
LC50 (4 days) 11 mg/L
Short-term toxicity to aquatic invertebrates
EC50 (48 h) 15 mg/L
NOEC (48 h) 10 mg/L
Toxicity to aquatic algae and cyanobacteria
EC50 (72 h) 62 mg/L
NOEC (72 h) 9.6 mg/L
C(E)L50 (mg/l) = 11
NOEC (mg/l) = 9,6
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate:
Short-term toxicity to fish
LC50 (4 days) 16.623 - 18.049 mg/L
LC50 (48 h) 76 mg/L
EC50 (4 days) 10.89 mg/L
Long-term toxicity to fish
LC50 (14 days) 346.663 mg/L
Short-term toxicity to aquatic invertebrates
EC50 (48 h) 53.81 mg/L
EC50 (24 h) 19.181 - 164 mg/L
LC50 (48 h) 15.795 mg/L
Toxicity to aquatic algae and cyanobacteria
EC50 (72 h) 13.075 mg/L
NOEC (72 h) 1.706 mg/L
C(E)L50 (mg/l) = 10,89
NOEC (mg/l) = 1,706
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl propionate:
Short-term toxicity to fish
LC50 (4 days) 6.7 mg/L
LC50 (72 h) 6.9 mg/L
LC50 (48 h) 8 mg/L
LC50 (24 h) 15 mg/L
Long-term toxicity to fish
NOEC (33 days) 800 µg/L
Short-term toxicity to aquatic invertebrates
EC50 (48 h) 14 mg/L
Long-term toxicity to aquatic invertebrates
NOEC (21 days) 1 mg/L
EC50 (21 days) 1.8 - 2.6 mg/L
Toxicity to aquatic algae and cyanobacteria
EC50 (72 h) 2.5 - 3.3 mg/L
C(E)L50 (mg/l) = 2,5
NOEC (mg/l) = 0,8
Allyl hexanoate:
Short-term toxicity to fish
LC50 (4 days) 117 µg/L
LC50 (72 h) 117 µg/L
LC50 (48 h) 117 µg/L
LC50 (24 h) 201 µg/L
Short-term toxicity to aquatic invertebrates

EC50 (48 h) 2 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50 (72 h) 778 - 4 600 µg/L

NOEC (72 h) 158 µg/L

C(E)L50 (mg/l) = 0,117

NOEC (mg/l) = 0,158

Allyl 3-cyclohexylpropionate:

Short-term toxicity to fish

LC50 (4 days) 130 µg/l

Short-term toxicity to aquatic invertebrates

EC50 (48 h) 3.8 mg/L

EC50 (24 h) 7.7 mg/L

NOEC (48 h) 860 µg/L

Toxicity to aquatic algae and cyanobacteria

EC50 (4 days) 2.3 - 4.6 mg/L

EC50 (72 h) 2.1 - 3 mg/L

NOEC (4 days) 280 - 1 900 µg/L

NOEC (72 h) 740 µg/L

C(E)L50 (mg/l) = 0,13

NOEC (mg/l) = 0,28

3-p-cumenyl-2-methylpropionaldehyde:

Short-term toxicity to fish

LC50 (4 days) 1.092 - 3.032 mg/L

Short-term toxicity to aquatic invertebrates

EC50 (48 h) 1.4 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50 (4 days) 2.7 - 3.8 mg/L

EC50 (72 h) 2.7 - 4.3 mg/L

NOEC (4 days) 200 - 700 µg/L

NOEC (72 h) 720 µg/L

Toxicity to microorganisms

EC50 (3 h) 100 mg/L

C(E)L50 (mg/l) = 1,092

NOEC (mg/l) = 0,2

Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE):

Short-term toxicity to fish

LC50 (4 days) 7.5 mg/L

Short-term toxicity to aquatic invertebrates

EC50 (48 h) 22.4 mg/L

EC50 (24 h) 23.2 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50 (72 h) 28 mg/L

NOEC (72 h) 10 mg/L

C(E)L50 (mg/l) = 7,5

NOEC (mg/l) = 10

The product is dangerous for the environment as it is toxic for aquatic organisms following acute exposure.

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:

Oxydipropanol:

No data

p-menth-1-en-8-yl acetate:

Readily biodegradable (100%)

Linalyl acetate:

Readily biodegradable

3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate:

Readily biodegradable

3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl propionate:

Not readily biodegradable (100%)

Allyl hexanoate:

Readily biodegradable (100%)

Allyl 3-cyclohexylpropionate:

Readily biodegradable (100%)

3-p-cumenyl-2-methylpropionaldehyde:

Readily biodegradable

Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE):

Under test conditions no biodegradation observed

12.3. Bioaccumulative potential

Related to contained substances:

Allyl 3-cyclohexylpropionate:

Bioaccumulation Factor (BCF) - L/kg ww

861 L/kg ww

12.4. Mobility in soil

Related to contained substances:

Oxydipropanol:

53.7 %

Linalyl acetate:

0.84 %

3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate:

Koc

66.4 - 1 500

3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl propionate:

log Koc

1.86 - 3.11

Allyl 3-cyclohexylpropionate:

Koc at 20°C

1 819.7

3-p-cumenyl-2-methylpropionaldehyde:

log Koc

3.05 @ 35 °C

Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde (2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE):

Koc at 20°C

158

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

12.6. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

12.7. Other adverse effects

No adverse effects

13.1. Waste treatment methods

Disposal of the mixture:

Recover if possible. Send to authorised disposal plants. Operate in accordance with current local and national rules.

Disposal of packaging:

Always clean the packaging before disposal or recycling by rinsing thoroughly with water, cleaning solutions or if possible by treating them as described above. Empty and clean packaging can be recycled or disposed of in accordance with regulations in force. Refers to the environmental labelling for details.

Check local rules for disposal.

SECTION 14. Transport information**14.1. UN number or ID number**

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

It is not intended to carry bulk

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

More information:

The evaluation of information on the dangers of mixtures were made in accordance with the criteria referred to in articles 8 and 9 of Regulation (EC) no 1272/2008.

EU reference legislation:

- Regulation (EC) 1907/2006 (REACH), current text.
- Regulation (EC) 440/2008 (REACH test methods), current text.
- Regulation (EC) 1272/2008 (CLP), current text.
- Regulation (EU) 878/2020 (drafting of safety data sheets).
- Regulation (EC) 648/2004, current text (relating to detergents).

- Regulation (EC) 1223/2009, current text (cosmetic products).
- ADR 2021 agreement

The substance / mixture complies with / does not fall within the scope of the following Regulations:

- Regulation (EC) 1005/2009, current text (substances that reduce the Ozone layer)
- Regulation (EU) 2019/1021, current text (persistent organic pollutants - POPs)
- Regulation (EU) 649/2012, current text (export and import of dangerous chemicals)
- Directive (EU) 2012/18 (Seveso III)

Other statements:

- The product is free from GMOs (genetically modified organisms), it is not obtained or derived from GMOs, as defined in Regulation (EC) 834/2007, current text
- The product is excluded from the field of application of Regulation (EC) 1139/2003 (BSE) and of Regulation (EC) no. 999/2001 (TSE), current text, because it is not of animal origin, does not contain animal derivatives and has not come into contact with animal derivatives at any stage of production.
- Our company does not perform or commission animal tests on the product or its components.
- The product has not been treated with ionizing radiation.
- Directive 2010/59 / EU: the product is free from residual solvents or if present these do not exceed the maximum limits provided for in the Directive.
- The product is free from residues of unauthorized contaminants or the maximum limits provided for in Regulation (EC) 396/2005, current text, are not exceeded for those authorized.

Any registrations, restrictions, belonging to restricted categories of one or more members, are listed below. The absence of information means that no further specification is necessary or that all components belong to the lowest risk category.

The list of Regulations reported is not exhaustive of all local, national and Community information applicable to the substance / mixture (including its components). For additional information, contact the Person Responsible for this Safety Data Sheet.

All substances are registered / pre-registered / identified for registration / exempt from registration in the ECHA database of chemicals.

Substances in the Candidate List (REACH Article 59)

Based on available data, no SVHC substances are present

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Description of the hazard statements exposed to point 3

H411 = Toxic to aquatic life with long lasting effects.

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H319 = Causes serious eye irritation.

H412 = Harmful to aquatic life with long lasting effects.

H301 = Toxic if swallowed.

H311 = Toxic in contact with skin.

H331 = Toxic if inhaled.

H400 = Very toxic to aquatic life.

H302 = Harmful if swallowed.

H312 = Harmful in contact with skin.

H332 = Harmful if inhaled.

H410 = Very toxic to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008

H317 - May cause an allergic skin reaction. Classification procedure: Calculation method

H412 - Harmful to aquatic life with long lasting effects. Classification procedure: Calculation method

Carefully read the instructions for use on the packaging and/or on the product leaflet.

The information contained in this sheet is provided in good faith and refers to the current state of our scientific and

technical knowledge at the date of revision of the sheet. All the information on the sheet regarding the composition and chemical-physical properties are provided exclusively for correct handling and use of the product and for any interventions in the event of an emergency. They do not indicate the complete composition of the product (shown on the packaging) nor do they represent any sales specification.

Relevant key information on possibly available exposure scenarios for substances are summarized in sections 1.2, 7.3 and 8.2 of this safety data sheet. The information relates only to the substance/mixture specifically designated in section 1 and is not valid if the substance/mixture is used in combination with other materials or in processes not specifically specified in section 1.

The recipient of this Safety Data Sheet is required to ensure that the information contained is read and understood by all persons who handle, store, use, or otherwise come into contact in any way with the substance / mixture to which this sheet refers. In particular, the recipient must provide adequate training to personnel assigned to the use of substances or mixtures. The recipient must ensure the suitability and completeness of the information in relation to the specific use he makes of the substance / mixture. The substance / mixture to which this sheet refers must not be used for uses other than those specified in section 1. The Safety Data Sheet Manager assumes no responsibility for improper uses. Since the use of the product does not fall under the direct control of the supplier, it is the user's obligation to comply, under his own responsibility, with the laws and regulations in force regarding national and Community hygiene and safety.

Additional contact person responsible for the contents of the safety data sheet: Fabrizio Cioci. Tel. +39 338 3446012
MSDS@consulting-in-cosmetics.com

Bibliography:

Supplier Safety Data Sheets. Related exposure scenarios.
European Commission, Health and Consumers, ECETOC center for chemical safety assessment
EFSA Journal. European Food Safety Authority
ECHA Brief Profiles (<http://echa.europa.eu>)
eChemPortal (OECD) Existing Chemicals Database
U.S. National Library of Medicine: ChemIDplus
CIR. Cosmetic Ingredient review
The Good Scents Company (<http://www.thegoodscentscompany.com>)
EFFA code of practices. IFRA Standards Library. RIFM Fragrance Material Safety Assessment Center
FEMA Flavor Ingredients Library
INRS Fiche Toxicologique
U.S. National Toxicology Program. NIOSH Pocket Guide to Chemical Hazard
U.S. FDA. SCOGS Selected Committee on GRAS Substances
BIBRA Toxicology advice & consulting
HERA Human and Environmental Risk Assessment on ingredients of household cleaning products
Pubchem Database
WHO. INCHEM Internationalally Peer Reviewed Chemical Safety Information
NICNAS Australian Industrial Chemicals Introduction Scheme
USDA Dr. Duke's Phytochemical and Ethnobotanical Databases
