

Fragrance ingredients restricted as potential allergens in candle perfume according to EU provision 1223/2009

candle perfume item number: 14731-401-2

| CAS#       | Ingredient Name                                 | Total % in fragrance (calculated)<br>(Direct addition and indirect addition<br>from naturals / synthetics) |
|------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 100-51-6   | BENZYL ALCOHOL                                  | 0,020                                                                                                      |
| 101-85-9   | AMYL CINNAMYL ALCOHOL                           | -                                                                                                          |
| 101-86-0   | HEXYL CINNAMAL                                  | -                                                                                                          |
| 103-41-3   | BENZYL CINNAMATE                                | -                                                                                                          |
| 104-54-1   | CINNAMYL ALCOHOL                                | -                                                                                                          |
| 104-55-2   | CINNAMAL                                        | -                                                                                                          |
| 105-13-5   | ANISE ALCOHOL                                   | -                                                                                                          |
| 106-22-9   | CITRONELLOL                                     | -                                                                                                          |
| 106-24-1   | GERANIOL                                        | -                                                                                                          |
| 107-75-5   | HYDROXYCITRONELLAL                              | -                                                                                                          |
| 111-12-6   | METHYL 2-OCTYNOATE                              | -                                                                                                          |
| 118-58-1   | BENZYL SALICYLATE                               | -                                                                                                          |
| 120-51-4   | BENZYL BENZOATE                                 | 0,003                                                                                                      |
| 122-40-7   | AMYL CINNAMAL                                   | -                                                                                                          |
| 127-51-5   | ALPHA-ISOMETHYL IONONE                          | -                                                                                                          |
| 31906-04-4 | HYDROXYISOHEXYL 3-CYCLOHEXENE<br>CARBOXALDEHYDE | -                                                                                                          |
| 4602-84-0  | FARNESOL                                        | -                                                                                                          |
| 5392-40-5  | CITRAL                                          | 1,029                                                                                                      |
| 5989-27-5  | D-LIMONENE                                      | 1,218                                                                                                      |
| 78-70-6    | LINALOOL                                        | 0,002                                                                                                      |
| 80-54-6    | BUTYLPHENYL METHYLPROPIONAL                     | -                                                                                                          |
| 90028-67-4 | EVERNIA FURFURACEA (TREETMOSS) EXTRACT          | -                                                                                                          |
| 90028-68-5 | EVERNIA PRUNASTRI (OAKMOSS) EXTRACT             | -                                                                                                          |
| 91-64-5    | COUMARIN                                        | -                                                                                                          |
| 97-53-0    | EUGENOL                                         | -                                                                                                          |
| 97-54-1    | ISOEUGENOL                                      | -                                                                                                          |

The information contained in is, to the best of our knowledge, true and accurate at the time is given. It is provided to the customer for its information and internal use only. We are not liable for any damages that may result from the misuse of the data. It is customer's responsibility to perform its own evaluations on the material valued in, including with respect to end-use applications. Any customer product, marketing or other claims are customer's sole responsibility.

4/24/2023

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To whom it may concern

9/1/2023

Conformity declaration

We herewith confirm that the fragrance with item number **14731-401-2** complies with the requirements of the Code of Practice of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA-51, published 30 JUN 2023), provided it used in following application (class) at a maximum concentration level of:

| Combined IFRA category (*) | Maximum level of use (%) (w/w) |
|----------------------------|--------------------------------|
| Category 1                 | 8,54                           |
| Category 2                 | 2,53                           |
| Category 3                 | 9,70                           |
| Category 4                 | 19,01                          |
| Category 5A                | 12,03                          |
| Category 5B                | 12,03                          |
| Category 5C                | 12,03                          |
| Category 5D                | 3,95                           |
| Category 7A                | 19,01                          |
| Category 7B                | 19,01                          |
| Category 8                 | 3,95                           |
| Category 9                 | 19,01                          |
| Category 10A               | 19,01                          |
| Category 10B               | 19,01                          |
| Category 11A               | 3,95                           |
| Category 11B               | 3,95                           |
| Category 12                | 100,00                         |

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## ANNEX: Definition of IFRA categories

### Finished product types

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Children's toys // Lip products of all types (solid and liquid lipsticks, balms, clear or colored, etc....)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Category 1   |
| Deodorant and antiperspirant products of all types including fragranced body sprays and body mists                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Category 2   |
| Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, etc....) // Women's make-up (Foundation) // Make-up removers of all types // Nose pore strips // Wipes or refreshing tissues for face, neck, hands, body // Body paint (for children and adults) // Facial masks (facial treatment)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Category 3   |
| Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau de toilette, Parfum, Eau de Cologne, solid perfume, fragrancing cream, Aftershave alcoholic etc....) // Fragranced bracelets // Ingredients of perfume kits and fragrance mixtures for cosmetic kits // Scent pads, Foil packs // Scent strips for hydroalcoholic products                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Category 4   |
| Body creams, oils, lotions of all types (except baby cream, lotion, oil) // Foot care products (creams & powders) // Insect repellent intended to be applied on the skin // All powders and talcs (except baby powders and talcs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Category 5A  |
| Facial creams, toner and moisturizers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Category 5B  |
| Hand cream // Nail care products (including cuticle creams, etc....) // Hand sanitizers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Category 5C  |
| Baby lotion, cream, oil, powder/talc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Category 5D  |
| Mouthwash including breath sprays, tablets and strips // Toothpaste and toothpowder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Category 6   |
| Rinse-off hair permanent or other hair chemical treatments (e.g. relaxers) including hair dyes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Category 7A  |
| Hair sprays // Hair styling aids of all types (mousse, gels, leave in conditioners) // Dry shampoo or waterless shampoo // Hair deodorant // Leave on hair permanent or other hair chemical treatments (e.g. relaxers) including hair dyes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Category 7B  |
| Intimate wipes // Tampons // Baby wipes // Wet toilet paper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Category 8   |
| Bar soap // Shampoo // Face washes, gels, scrubs // Conditioner (rinse-off) // Liquid soap // Body wash and shower gels // Bath gels, foams, mousses, salts, oils // Baby wash, bath, shampoo // Footcare products (feet are placed in a bath for soaking) // Shaving creams // Depilatory (including facial) // Waxes for mechanical hair removal // Shampoos for pets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Category 9   |
| Hand wash laundry detergent // Laundry pre-treatment (all types) // Hand dishwashing detergent // Hard surface cleaner (all types) // Machine laundry detergents with skin contact (e.g. liquids, powders) // Dry cleaning kits // Toilet seat wipes // Fabric softeners (liquids and dryer sheets) // Other household cleaning products (fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes (sprays and wipes), leather cleaning wipes, starch sprays, stain removers, fabric enhancing sprays, treatment products for textiles including deodorizer) // Floor wax // Fragranced oil for lamp rings, reed diffusers, potpourri, etc.... // Ironing water                                                                                                                                                                                                                                                                                                                                                               | Category 10A |
| Air fresheners sprays, including aerosol and pump // Insecticides aerosol or sprays // Sprays (of all types) applied to animals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Category 10B |
| Feminine hygiene conventional pads, interlabial pads // Feminine hygiene liners // Diapers (baby and adult) // Adult incontinence pant, pad Toilet paper (dry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Category 11A |
| Tights with moisturizers // Scented socks, gloves // Facial tissues (dry tissues) // Napkins // Paper towels // Wheat bags // Fragranced facemasks (paper/protective, not intended for use as a medical device)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Category 11B |
| Air delivery systems // Air Fresheners and fragrancing of all types (excluding aerosols listed in category 10), e.g. plug-ins and enclosed liquid refills, solid substrate, membrane delivery, electrical, powders, fragrancing sachets, incense, air freshening crystals, automated sprays(including concentrated aerosols with metered doses [range 0.05-0.5 mL/spray]), closed air fresheners // Candles of all types (including encased) // Cat litter // Deodorizers/maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders) // Fuels /Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosol/spray // Joss sticks or incense sticks // Laundry detergents with minimal skin contact (e.g. pods) // Machine dishwash detergent and deodorizer // Paints // Plastic articles (excluding toys) // "Scratch and sniff" (sampling technology) // Scent pack // Scent delivery system using a dry air technology // Shoe polishes // Toilet blocks // Olfactive board games | Category 12  |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Item number/ Trade name  
Version/ Issue date:

14731-401-2

4 / 10/22/2024

Print date 04/28/2025  
Page 1 of 11

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

### 1.1 Product identifier

|                         |                                      |
|-------------------------|--------------------------------------|
| Item number/ Trade name | fragrance composition<br>14731-401-2 |
| UFI                     | Mango Tango<br>HRS9-21HF-K00M-7F0V   |

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

|             |                                                          |
|-------------|----------------------------------------------------------|
| General use | Perfumes, fragrances, Formulation of fragranced products |
|-------------|----------------------------------------------------------|

### 1.3 Details of the supplier of the safety data sheet

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

Eye Irrit. 2; H319 Causes serious eye irritation.

Skin Sens. 1; H317 May cause an allergic skin reaction.

### 2.2 Label elements



#### Signal word

Warning

#### Nature of Hazard

GHS07 Exclamation mark

#### Hazard statements

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

#### Safety precautions

H412 Harmful to aquatic life with long lasting effects.

P264 Wash affected areas thoroughly after handling.

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P321 Specific treatment (see ### on this label).

P363 Wash contaminated clothing before reuse.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Item number/ Trade name  
Version/ Issue date:

14731-401-2

4 / 10/22/2024

Print date 04/28/2025  
Page 2 of 11

P501 Dispose of contents/container to hazardous waste.  
P302+P352 IF ON SKIN: Wash with plenty of water/soap.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P273 Avoid release to the environment.

## Hazard components for labelling

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde  
(R)-p-Mentha-1,8-diene  
Citral

## Special provisions concerning the labelling of certain mixtures

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### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. The substance/mixture does not contain any ingredients with endocrine disrupting properties that are listed under REACH Article 57(f) (or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605) at levels of 0.1% or more.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

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### 3.2 Mixtures

#### Hazardous ingredients

2-Propenyl Phenoxyacetate: 0,1 % - 0,99 %  
CAS-Number: 7493-74-5  
EC-number: 231-335-2  
REACH registration No.: 01-2120762043-63  
Classification according to EC regulation 1272/2008 (CLP):  
Acute Tox. 4; H302 / Acute Tox. 4; H312 / Aquatic Acute 1; H400 / Skin Sens. 1; H317

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde: 0,1 % - 0,99 %  
CAS-Number: 68039-49-6  
EC-number: 268-264-1  
Classification according to EC regulation 1272/2008 (CLP):  
Aquatic Chronic 2; H411 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

Benzyl acetate: 10 % - 24,99 %  
CAS-Number: 140-11-4  
EC-number: 205-399-7  
REACH registration No.: 01-2119638272-42  
Classification according to EC regulation 1272/2008 (CLP):  
Aquatic Chronic 3; H412

Diphenyl ether: 3 % - 9,99 %  
CAS-Number: 101-84-8  
EC-number: 202-981-2  
REACH registration No.: 01-2119472545-33  
Classification according to EC regulation 1272/2008 (CLP):  
Aquatic Acute 1; H400 (M = 1) / Aquatic Chronic 3; H412 / Eye Irrit. 2; H319

Allyl hexanoate: 1 % - 2,49 %  
CAS-Number: 123-68-2  
EC-number: 204-642-4  
REACH registration No.: 01-2119983573-26

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Item number/ Trade name **14731-401-2**

Print date **04/28/2025**

Version/ Issue date: **4 / 10/22/2024**

Page **3 of 11**

Classification according to EC regulation 1272/2008 (CLP):

Acute Tox. 3; H301 / Acute Tox. 3; H311 / Acute Tox. 3; H331 / Aquatic Acute 1; H400 (M = 1) / Aquatic Chronic 2; H411

Ethyl butanoate: 1 % - 2,49 %

CAS-Number: 105-54-4

EC-number: 203-306-4

REACH registration No.: 01-2120118576-54-XXXX

Classification according to EC regulation 1272/2008 (CLP):

Eye Irrit. 2; H319 / Flam. Liq. 3; H226

(R)-p-Mentha-1,8-diene: 1 % - 2,49 %

CAS-Number: 5989-27-5

EU index number: 601-096-00-2

EC-number: 227-813-5

REACH registration No.: 01-2119529223-47

Classification according to EC regulation 1272/2008 (CLP):

Aquatic Acute 1; H400 (M = 1) / Aquatic Chronic 3; H412 / Asp. Tox. 1; H304 / Flam. Liq. 3; H226 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

Citral: 1 % - 2,49 %

CAS-Number: 5392-40-5

EU index number: 605-019-00-3

EC-number: 226-394-6

REACH registration No.: 01-2119462829-23

Classification according to EC regulation 1272/2008 (CLP):

Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1; H317

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Item number/ Trade name  
Version/ Issue date:

14731-401-2

4 / 10/22/2024

Print date 04/28/2025  
Page 4 of 11

---

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                         |                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General information     | Remove affected person from the danger area and lay down. Do not leave affected person unattended. Show this safety data sheet to the doctor in attendance.                                     |
| In case of inhalation   | If unconscious but breathing normally, place in recovery position and seek medical advice. Seek medical aid in case of troubles.                                                                |
| In case of skin contact | Thoroughly clean the contaminated area with water.                                                                                                                                              |
| After eye contact       | Remove contact lenses, if any. Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently seek the immediate attention of an ophthalmologist. |
| After swallowing        | Keep airway open. Never give anything by mouth to an unconscious person. Seek medical treatment in case of troubles.                                                                            |

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

|          |                   |
|----------|-------------------|
| Symptoms | No data available |
|----------|-------------------|

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

|                          |                   |
|--------------------------|-------------------|
| Information to physician | No data available |
|--------------------------|-------------------|

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                                               |                                                                                |
|---------------------------------------------------------------|--------------------------------------------------------------------------------|
| Suitable extinguishing media                                  | dry extinguishing powder, Alcohol resistant foam , carbon dioxide , water mist |
| Extinguishing media which must not be used for safety reasons | Full water jet                                                                 |

### 5.2 Special hazards arising from the substance or mixture

|                              |                                                       |
|------------------------------|-------------------------------------------------------|
| Possible combustion products | May form dangerous gases and vapours in case of fire. |
|------------------------------|-------------------------------------------------------|

### 5.3 Advice for firefighters

|                                               |                                                                                                                                                                                           |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special protective equipment for firefighters | Wear a self-contained breathing apparatus and chemical protective clothing.                                                                                                               |
| Additional information                        | Do not allow water used to extinguish fire to enter drains, ground or waterways. You have to dispose of contaminated extinguishing water according to the regulations of the authorities. |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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### 6.2 environmental precautions

Do not allow to penetrate into soil, waterbodies or drains. If necessary notify appropriate authorities.  
Discharge into the environment must be avoided.

### 6.3 Methods and material for containment and cleaning up

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

### 6.4 Reference to other sections

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Item number/ Trade name  
Version/ Issue date:

14731-401-2

4 / 10/22/2024

Print date 04/28/2025  
Page 5 of 11

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling

Avoid exposure - obtain special instructions before use. Do not breathe vapours. Avoid contact with skin, eyes, and clothing. When using do not eat, drink, smoke, sniff. Ensure all waste water is collected and treated via a waste water treatment plant. Personal protection equipment: see section 8

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers

Keep container tightly closed in a cool, well-ventilated place. Protect from light.

Storage class

10

### 7.3 Specific end use(s)

General use

Perfumes, fragrances, Formulation of fragranced products

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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### 8.2 Exposure controls

Respiratory protection

Avoid exceeding WEL threshold levels. Respiratory protection must be worn whenever the WEL levels have been exceeded. Provide good ventilation and/or an exhaust system in the work area.

Hand protection

breakthrough time Short-term, accidental skin contact: Breakthrough time 10 min  
In case of prolonged or frequently repeated skin contact: If direct skin contact with the chemical is expected during work, then gloves conforming to EN 16523-1/ASTM F739 (or equivalent local standard) with a breakthrough time at least equal to the contact time must be worn. Breakthrough time: Observe glove manufacturer's instructions concerning penetrability and breakthrough time.  
Use safety glasses conforming to EN 166/ANSI Z87.1 or equivalent local standards.

Eye protection

Body protection

Wear suitable protective clothing. When handling larger quantities: face protection, rubber boots and rubber apron.

General protection and hygiene measures

Avoid contact with skin, eyes, and clothing. After work, wash hands and face. When using do not eat, drink or smoke. Wash contaminated clothing prior to re-use.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Item number/ Trade name  
Version/ Issue date:

14731-401-2

4 / 10/22/2024

Print date 04/28/2025  
Page 6 of 11

## SECTION 9: Physical and chemical properties

### 9.1 information on basic physical and chemical properties

Form liquid  
Colour colourless up to yellowish  
Odour characteristic fruity

Important health, safety and environmental information

|                                           | min                       | max |       |     |
|-------------------------------------------|---------------------------|-----|-------|-----|
| Melting point/freezing point              | ---                       | --- |       |     |
| Initial boiling point and boiling range   | ---                       | --- |       |     |
| Flammability                              |                           |     | ---   |     |
| Explosion limits                          | ---                       | --- |       |     |
| Flash point/flash point range             | 81 °C c.c.                | --- |       |     |
| Ignition temperature                      | ---                       | --- |       |     |
| PH                                        | ---                       | --- | ---   | --- |
| Viscosity                                 | ---                       | --- | ---   | --- |
| Solubility                                | ---                       | --- | ---   | --- |
| Partition coefficient:<br>n-octanol/water | ---                       | --- |       | --- |
| Vapour pressure                           | ber. 0,6047 hPa           | --- | 20 °C | --- |
| Density and/or relative density           | 0,92433 g/cm <sup>3</sup> | --- | 20 °C | --- |
| Relative vapour density                   | ---                       | --- |       | --- |
| Bulk density                              | ---                       | --- | ---   |     |
| Flow time 4mm (DIN)                       | ---                       |     |       |     |
| Water solubility                          | ---                       |     |       |     |

### 9.2 Other information

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No data available

### 10.3 Possibility of hazardous reactions

Strong oxidizing agents

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### General remarks

No data available

#### Toxicological tests: components

##### 2-Propenyl Phenoxyacetate

|        |      |        |       |   |
|--------|------|--------|-------|---|
| oral   | LD50 | 500.0  | mg/kg | - |
| Rat    |      |        |       |   |
| dermal | LD50 | 1100.0 | mg/kg | - |

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Version/ Issue date:

14731-401-2  
4 / 10/22/2024

Print date  
Page

04/28/2025  
7 of 11

Rabbit

**Toxicological tests: components**

**2,4-Dimethylcyclohex-3-ene-1-carbaldehyde**

|      |      |        |       |   |
|------|------|--------|-------|---|
| oral | LD50 | 3100.0 | mg/kg | - |
|------|------|--------|-------|---|

Rat

|        |      |        |       |   |
|--------|------|--------|-------|---|
| dermal | LD50 | 5000.0 | mg/kg | - |
|--------|------|--------|-------|---|

Rabbit

**Toxicological tests: components**

**Benzyl acetate**

|      |      |        |       |   |
|------|------|--------|-------|---|
| oral | LD50 | 2490.0 | mg/kg | - |
|------|------|--------|-------|---|

Rat

**Toxicological tests: components**

**Diphenyl ether**

|      |      |        |       |   |
|------|------|--------|-------|---|
| oral | LD50 | 2450.0 | mg/kg | - |
|------|------|--------|-------|---|

Rat

|        |      |        |       |   |
|--------|------|--------|-------|---|
| dermal | LD50 | 7940.0 | mg/kg | - |
|--------|------|--------|-------|---|

Rabbit

**Toxicological tests: components**

**Allyl hexanoate**

|      |      |       |       |   |
|------|------|-------|-------|---|
| oral | LD50 | 218.0 | mg/kg | - |
|------|------|-------|-------|---|

Rat

|        |      |       |       |   |
|--------|------|-------|-------|---|
| dermal | LD50 | 300.0 | mg/kg | - |
|--------|------|-------|-------|---|

Rabbit

**Toxicological tests: components**

**Ethyl butanoate**

|      |      |         |       |   |
|------|------|---------|-------|---|
| oral | LD50 | 13050.0 | mg/kg | - |
|------|------|---------|-------|---|

Rat

**Toxicological tests: components**

**(R)-p-Mentha-1,8-diene**

|      |      |        |       |   |
|------|------|--------|-------|---|
| oral | LD50 | 5600.0 | mg/kg | - |
|------|------|--------|-------|---|

Mouse

|        |      |        |       |   |
|--------|------|--------|-------|---|
| dermal | LD50 | 5000.0 | mg/kg | - |
|--------|------|--------|-------|---|

Rabbit

**Toxicological tests: components**

**Citral**

|      |      |        |       |   |
|------|------|--------|-------|---|
| oral | LD50 | 4950.0 | mg/kg | - |
|------|------|--------|-------|---|

Rat

|        |      |        |       |   |
|--------|------|--------|-------|---|
| dermal | LD50 | 2250.0 | mg/kg | - |
|--------|------|--------|-------|---|

Rabbit

**11.2 Information on other hazards**

Endocrine disrupting properties

The substance/mixture does not contain any ingredients with endocrine disrupting properties that are listed under REACH Article 57(f) (or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605) at levels of 0.1% or more.  
No data available

Further details

**SECTION 12: Ecological information**

**12.1 Toxicity**

Aquatic toxicity

Harmful to aquatic life with long lasting effects.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Item number/ Trade name  
Version/ Issue date:

14731-401-2

4 / 10/22/2024

Print date 04/28/2025  
Page 8 of 11

## **12.2 Persistence and degradability**

|                       |                   |
|-----------------------|-------------------|
| Evaluation text       | No data available |
| Degree of elimination | No data available |
| Analytical method     | No data available |

## **12.3 Bioaccumulative potential**

No data available

## **12.4 Mobility in soil**

No data available

## **12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher.

## **12.6 Endocrine disrupting properties**

The substance/mixture does not contain any ingredients with endocrine disrupting properties that are listed under REACH Article 57(f) (or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605) at levels of 0.1% or more.

## **12.7 Other adverse effects**

An environmental hazard cannot be ruled out in the event of improper handling or disposal. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product**

|                |                                                                                                       |
|----------------|-------------------------------------------------------------------------------------------------------|
| Recommendation | Discharge into the environment must be avoided. Dispose of waste according to applicable legislation. |
|----------------|-------------------------------------------------------------------------------------------------------|

#### **Package**

|                |                                                                                                                  |
|----------------|------------------------------------------------------------------------------------------------------------------|
| Recommendation | Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. |
|----------------|------------------------------------------------------------------------------------------------------------------|

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Item number/ Trade name

Version/ Issue date:

14731-401-2

4 / 10/22/2024

Print date

Page

04/28/2025

9 of 11

SECTION 14: Transport information

14.1 UN number

ADR, IATA, IMDG

UNnot regulated

14.2 UN proper shipping name

Product designation: ADR/RID

Proper shipping name: IATA-DGR

Proper shipping name: IMDG

No dangerous good in sense of these transport regulations.

---

---

14.3 Transport hazard class(es)

Class ADR/RID

Classification code

ADR/RID

---

---

---

Class IATA-DGR

Subrisk IATA-DGR

---

---

Class IMDG

Subrisk IMDG

---

---

14.4 Packing group

ADR, IATA, IMDG

---

14.5 Environmental hazards

Marine Pollutant - IMDG

EmS

Stowage and segregation

---

---

---

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

---

Additional information

EQ

Limited quantities

Special Provisions

Tunnel restriction

Transport category

Kemmler-number

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---

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---

---

No dangerous good in sense of these transport regulations.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Item number/ Trade name **14731-401-2**

Version/ Issue date:

**4 / 10/22/2024**

Print date **04/28/2025**

Page **10** of **11**

## SECTION 15: Regulatory information

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

#### National regulations

##### Europe

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##### Germany

|                                        |                                                   |
|----------------------------------------|---------------------------------------------------|
| Storage class                          | 10                                                |
| Water Hazard Class                     | 2 deutlich wassergefährdend                       |
| Major Accident Ordinance (12. BImSchV) | ---                                               |
| Information on working limitations     | Observe employment restrictions for young people. |

### 15.2 Chemical Safety Assessment

|                            |     |
|----------------------------|-----|
| Chemical Safety Assessment | --- |
|----------------------------|-----|

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Item number/ Trade name  
Version/ Issue date:

14731-401-2

4 / 10/22/2024

Print date 04/28/2025  
Page 11 of 11

## SECTION 16: Other information

### Hazard statements (CLP)

H226 Flammable liquid and vapour.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H311 Toxic in contact with skin.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.

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Reason of change

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### Abbreviations

--- no data, not determined or not applicable  
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No. 1907/2006)  
OECD Organisation for Economic Co-operation and Development  
LD50 Median lethal dose  
LC50 Median lethal concentration  
EC50 Median effective dose  
IC50 Median inhibitory concentration  
VCI Verband der chemischen Industrie  
CAS Chemical Abstract Service  
EINECS European Inventory of Existing Commercial Chemical Substances  
ELINCS European List of Notified Chemical Substances  
NLP No Longer Polymers  
CLP Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging  
EG European Union  
WGK water hazard class (according to AwSV, Appendix 1 (5.2))  
AGW Occupational Exposure Limit  
ADR Accord Européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulation on the international carriage of dangerous goods by rail)  
IATA International Air Transport Association  
IMDG International Maritime Dangerous Goods  
MARPOL International Convention for the Prevention of Pollution From Ships (MARine POLLution)  
EmS Emergency Schedules  
PBT persistent, bioaccumulative and toxic  
vPvB very persistent and very bioaccumulative