

SAFETY DATA SHEET

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

Item number/ Trade name **14365-401-1**
 Version/ Issue date: **6 / 09/04/2023**

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

1.1 Product identifier

Item number/ Trade name fragrance composition
 14365-401-1
 Spiced Winter Apple

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

Company/undertaking identification
 Name bekro chemie GmbH & Co. KG
 Street/POB-No.: 1 Industriestrasse 104
 City D-66802 Ueberherrn
 Phone # +49 6836 9198 0
 Telefax # +49 6836 9198 10
 E-mail info@bekro.de

1.4 Emergency telephone number

Name bekro chemie GmbH & Co. KG (Mo - Do 8.00 - 16.30, Fr 8.00 - 14.30)
 Phone # +49 6836 9198 0

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.

2.2 Label elements

Signal word ---

Nature of Hazard ---

Hazard statements H412 Harmful to aquatic life with long lasting effects.

Safety precautions P273 Avoid release to the environment.

P501 Dispose of contents/container to hazardous waste.

Hazard components for labelling

alpha-methylcinnamaldehyde
 Linalool
 (2E)-2-(phenylmethylidene)octanal
 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde
 Eugenol
 Coumarin
 Ethyl 2,3-epoxy-3-phenylbutyrate
 Geraniol
 Citral
 piperonal
 Citronellol
 Cinnamyl alcohol
 Methyl cinnamate

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delta-Damascone

Special provisions concerning the labelling of certain mixtures

EUH208 Contains alpha-methylcinnamaldehyde (101-39-3); (2E)-2-(Phenylmethyliden)octanal (165184-98-5
101-86-); Methylcinnamat (103-26-4); Cinnamylalkohol (104-54-1); Citronellol (106-22-9); Geraniol (106-24-1); Piperonal (120-57-0); Citral (5392-40-5); delta-Damascone (57378-68-4);
2,4-Dimethylcyclohex-3-en-1-carb. May produce an allergic reaction.

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

3.2 Mixtures

Hazardous ingredients

alpha-methylcinnamaldehyde: 0,1 % - 0,99 %

CAS-Nummer: 101-39-3

EINECS / ELINCS / NLP: 202-938-8

REACH-Registrierungsnr.: 01-2119538797-21

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Skin Sens. 1B; H317

Linalool: 0,1 % - 0,99 %

CAS-Nummer: 78-70-6

EU-Indexnummer: 603-235-00-2

EINECS / ELINCS / NLP: 201-134-4

REACH-Registrierungsnr.: 01-2119474016-42

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

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

(2E)-2-(Phenylmethyliden)octanal: 0,1 % - 0,99 %

CAS-Nummer: 165184-98-5, 101-86-0

EINECS / ELINCS / NLP: 639-566-4

REACH-Registrierungsnr.: 01-2119533092-50

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Aquatic Acute 1 (M1); H400 / Aquatic Chronic 2; H411 / Skin Sens. 1; H317

2,4-Dimethylcyclohex-3-en-1-carbaldehyd: 0,1 % - 0,99 %

CAS-Nummer: 68039-49-6

EINECS / ELINCS / NLP: 268-264-1

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Aquatic Chronic 2; H411 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

Eugenol: 0,1 % - 0,99 %

CAS-Nummer: 97-53-0

EINECS / ELINCS / NLP: 202-589-1

REACH-Registrierungsnr.: 01-2119971802-33

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

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

Cumarin: 0,1 % - 0,99 %

CAS-Nummer: 91-64-5

EINECS / ELINCS / NLP: 202-086-7

REACH-Registrierungsnr.: 01-2119949300-45

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

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Acute Tox. 3; H301 / Skin Sens. 1B; H317

Ethyl-2,3-epoxy-3-phenylbutyrat: 0,1 % - 0,99 %
CAS-Nummer: 77-83-8
EINECS / ELINCS / NLP: 201-061-8
REACH-Registrierungsnr.: 01-2119967770-28
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Aquatic Chronic 2; H411 / Skin Sens. 1B; H317

Geraniol: 0,1 % - 0,99 %
CAS-Nummer: 106-24-1
EU-Indexnummer: 603-241-00-5
EINECS / ELINCS / NLP: 203-377-1
REACH-Registrierungsnr.: 01-2119552430-49
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Eye Dam. 1; H318 / Skin Irrit. 2; H315 / Skin Sens. 1; H317

Citral: 0,1 % - 0,99 %
CAS-Nummer: 5392-40-5
EU-Indexnummer: 605-019-00-3
EINECS / ELINCS / NLP: 226-394-6
REACH-Registrierungsnr.: 01-2119462829-23
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1; H317

Piperonal: 0,1 % - 0,99 %
CAS-Nummer: 120-57-0
EINECS / ELINCS / NLP: 204-409-7
REACH-Registrierungsnr.: 01-2119983608-21
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Skin Sens. 1B; H317

Citronellol: 0,1 % - 0,99 %
CAS-Nummer: 106-22-9
EINECS / ELINCS / NLP: 203-375-0
REACH-Registrierungsnr.: 01-2119453995-23
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

Cinnamylalkohol: 0,1 % - 0,99 %
CAS-Nummer: 104-54-1
EINECS / ELINCS / NLP: 203-212-3
REACH-Registrierungsnr.: 01-2119934496-29
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Acute Tox. 4; H302 / Skin Sens. 1B; H317

Methylcinnamat: 0,1 % - 0,99 %
CAS-Nummer: 103-26-4
EU-Indexnummer: -
EINECS / ELINCS / NLP: 203-093-8
REACH-Registrierungsnr.: 01-2119979458-16
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Skin Sens. 1B; H317

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delta-Damascone: 0,01 % - 0,09 %
 CAS-Nummer: 57378-68-4
 EINECS / ELINCS / NLP: 260-709-8
 REACH-Registrierungsnr.: 01-2119535122-53
 Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
 Acute Tox. 4; H302 / Aquatic Acute 1 (M1); H400 / Aquatic Chronic 1 (M1); H410 / Skin Irrit. 2; H315 /
 Skin Sens. 1A; H317

Benzylacetat: 3 % - 9,99 %
 CAS-Nummer: 140-11-4
 EINECS / ELINCS / NLP: 205-399-7
 REACH-Registrierungsnr.: 01-2119638272-42
 Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
 Aquatic Chronic 3; H412

2-tert-Butylcyclohexylacetat: 3 % - 9,99 %
 CAS-Nummer: 88-41-5
 EINECS / ELINCS / NLP: 201-828-7
 REACH-Registrierungsnr.: 01-2119970713-33
 Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
 Aquatic Chronic 2; H411

Ethyl heptanoate
 : 0,1 % - 0,99 %
 CAS-Nummer: 106-30-9
 EINECS / ELINCS / NLP: 203-382-9
 REACH-Registrierungsnr.: 01-2120104876-54
 Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
 Aquatic Acute 1 (M1); H400 / Aquatic Chronic 3; H412

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

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: dry extinguishing powder, Alcohol resistant foam, : MITI (1992) 0,35, 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: C15H300

Additional information: Do not allow water used to extinguish fire to enter drains, ground or waterways.
>

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.2 environmental precautions

Do not allow to penetrate into soil, waterbodies or drains. May cause lung damage if swallowed.

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

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. Chemical basic material

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

Exposure limit values: components (2-Methoxymethylethoxy)propanol

State	Type	Value	Unit	Text
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ZZE	TWA	50,00	ppm	2000/39/EC
ZZE	TWA	308,00	mg/m ³	2000/39/EC

8.2 Exposure controls

Respiratory protection	Avoid exceeding WEL threshold levels. Respiratory protection must be worn whenever the WEL levels have been exceeded. Daphnia: 260 mg/L /48h (IUCLID) 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.
Eye protection	Use safety glasses conforming to EN 166/ANSI Z87.1 or equivalent local standards.
Body protection	Wear suitable protective clothing. When handling larger quantities: face protection, rubber boots and rubber apron.
General protection and hygiene measures	LC50 Wash contaminated clothing prior to re-use.

SECTION 9: Physical and chemical properties

9.1 information on basic physical and chemical properties

Form	liquid
Colour	colourless up to light yellow
Odour	characteristic

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	79 °C c.c.	---		
Ignition temperature	---	---		
PH	---	---	---	---
Viscosity	---	---	---	---
Solubility	---	---	---	---
Partition coefficient: n-octanol/water	---	---		---
Vapour pressure	ber. 0,3994 hPa	---	20 °C	---
Density and/or relative density	0,92233 g/cm ³	---	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

alpha-methylcinnamaldehyde

oral	LD50	2050.0	mg/kg	-
------	------	--------	-------	---

Rat

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

Rabbit

Toxicological tests: components

Linalool

oral	LD50	2790.0	mg/kg	-
------	------	--------	-------	---

Rat

Toxicological tests: components

(2E)-2-(phenylmethylidene)octanal

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

Rat

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

Eugenol

oral	LD50	2130.0	mg/kg	-
------	------	--------	-------	---

guinea pig

Toxicological tests: components

Coumarin

oral	LD50	290.0	mg/kg	-
------	------	-------	-------	---

Rat

Toxicological tests: components

Ethyl 2,3-epoxy-3-phenylbutyrate

oral	LD50	5000.0	mg/kg	-
------	------	--------	-------	---

Rat

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dermal	LD50	5000.0	mg/kg	-
<i>Rabbit</i>				

Toxicological tests: components

Geraniol

oral	LD50	3600.0	mg/kg	-
<i>Rat</i>				

dermal	LD50	5000.0	mg/kg	-
<i>Rabbit</i>				

Toxicological tests: components

Citral

oral	LD50	4950.0	mg/kg	-
<i>Rat</i>				

dermal	LD50	2250.0	mg/kg	-
<i>Rabbit</i>				

Toxicological tests: components

pipерonal

oral	LD50	2700.0	mg/kg	-
<i>Rat</i>				

dermal	LD50	5000.0	mg/kg	-
<i>Rat</i>				

Toxicological tests: components

Citronellol

oral	LD50	3450.0	mg/kg	-
<i>Rat</i>				

dermal	LD50	2650.0	mg/kg	-
<i>Rabbit</i>				

Toxicological tests: components

Cinnamyl alcohol

oral	LD50	2000.0	mg/kg	-
<i>Rat</i>				

Toxicological tests: components

Methyl cinnamate

oral	LD50	2610.0	mg/kg	-
<i>Rat</i>				

dermal	LD50	5000.0	mg/kg	-
<i>Rabbit</i>				

Toxicological tests: components

delta-Damascone

oral	LD50	1400.0	mg/kg	-
<i>Rat</i>				

Toxicological tests: components

Benzyl acetate

oral	LD50	2490.0	mg/kg	-
<i>Rat</i>				

Toxicological tests: components

2-tert-Butylcyclohexyl acetate

oral	LD50	4600.0	mg/kg	-
<i>Rat</i>				

dermal	LD50	5000.0	mg/kg	-
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Rabbit

Toxicological tests: components

Ethyl heptanoate

oral	LD50	34000.0	mg/kg	-
------	------	---------	-------	---

Rat

dermal	LD50	5000.0	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.

Further details

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

No data available

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. Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers. 20 - 40 °C

Package

Recommendation

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

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SECTION 14: Transport information

14.1 UN number

ADR, IATA, IMDG not regulated

14.2 UN proper shipping name

Product designation: ADR/RID No dangerous good in sense of these transport regulations.
 Proper shipping name: IATA-DGR ---
 Proper shipping name: IMDG ---

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 ---

No dangerous good in sense of these transport regulations.

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SECTION 15: Regulatory information

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

National regulations

Europe

Germany

Storage class	10
Water Hazard Class	1
Incident regulation	---
Information on working limitations	---

15.2 Chemical Safety Assessment

Chemical Safety Assessment	---
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SECTION 16: Other information

Hazard statements (CLP)

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.

 Reason of change ---

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