

SAFETY DATA SHEET

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



Item number/ Trade name **11527-401-1**
Version/ Issue date: **12 / 11/21/2024**

Print date **01/08/2025**
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
11527-401-1
Apple Cinnamon
UFI 5NW0-E11J-8000-TNY5

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 2; H411 Toxic to aquatic life with long lasting effects.
Skin Sens. 1; H317 May cause an allergic skin reaction.

2.2 Label elements



Signal word

Warning

Nature of Hazard

GHS07 Exclamation mark
GHS09 Environment

Hazard statements

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Safety precautions

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P321 Specific treatment (see instructions on this label).
P363 Wash contaminated clothing before reuse.
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.
P391 Collect spillage.

Hazard components for labelling

alpha-methylcinnamaldehyde(101-39-3); Methyl cinnamate(103-26-4); Cinnamyl

SAFETY DATA SHEET

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



Item number/ Trade name **11527-401-1**
Version/ Issue date: **12 / 11/21/2024**

Print date **01/08/2025**
Page **2 of 11**

alcohol(104-54-1); Cinnamaldehyde(104-55-2);
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one(54464-57-2);
delta-Damascone(57378-68-4); 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde(68039-49-6);
Eugenol(97-53-0); Isoeugenol(97-54-1)

Special provisions concerning the labelling of certain mixtures

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

2-tert-Butylcyclohexyl acetate: 10 % - 24,99 %

CAS-Number: 88-41-5

EINECS / ELINCS / NLP: 201-828-7

REACH registration No.: 01-2119970713-33

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

Aquatic Chronic 2; H411

Methyl cinnamate: 3 % - 9,99 %

CAS-Number: 103-26-4

EU index number: -

EINECS / ELINCS / NLP: 203-093-8

REACH registration No.: 01-2119979458-16

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

Skin Sens. 1B; H317

Undecan-4-olide: 3 % - 9,99 %

CAS-Number: 104-67-6

EINECS / ELINCS / NLP: 203-225-4

REACH registration No.: 01-2119959333-34-XXXX

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

Aquatic Chronic 3; H412

Allyl heptanoate: 1 % - 2,49 %

CAS-Number: 142-19-8

EINECS / ELINCS / NLP: 205-527-1

REACH registration No.: 01-2119488961-23-XXXX

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

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

Cinnamaldehyde: 1 % - 2,49 %

CAS-Number: 104-55-2

EINECS / ELINCS / NLP: 203-213-9

REACH registration No.: 01-2119935242-45

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

Acute Tox. 4; H312 / Aquatic Chronic 3; H412 / Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1A; H317

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one: 1 % - 2,49 %

CAS-Number: 54464-57-2

EINECS / ELINCS / NLP: 259-174-3

REACH registration No.: 01-2119489989-04

SAFETY DATA SHEET

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



Item number/ Trade name **11527-401-1**
Version/ Issue date: **12 / 11/21/2024**

Print date **01/08/2025**
Page **3 of 11**

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

Aquatic Chronic 1; H410 (M = 1) / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

Cinnamyl alcohol: 1 % - 2,49 %

CAS-Number: 104-54-1

EINECS / ELINCS / NLP: 203-212-3

REACH registration No.: 01-2119934496-29

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

Acute Tox. 4; H302 / Skin Sens. 1B; H317

alpha-methylcinnamaldehyde: 1 % - 2,49 %

CAS-Number: 101-39-3

EINECS / ELINCS / NLP: 202-938-8

REACH registration No.: 01-2119538797-21

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

Aquatic Acute 1; H400 / Skin Sens. 1B; H317

Eugenol: 1 % - 2,49 %

CAS-Number: 97-53-0

EINECS / ELINCS / NLP: 202-589-1

REACH registration No.: 01-2119971802-33

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

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

4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-on: 1 % - 2,49 %

CAS-Number: 14901-07-6

EINECS / ELINCS / NLP: 238-969-9

REACH registration No.: 01-2119449921-34-xxxx

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

Aquatic Chronic 2; H411

Methylionone: 1 % - 2,49 %

CAS-Number: 1335-46-2

EINECS / ELINCS / NLP: 215-635-0

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

Aquatic Chronic 2; H411 / Eye Irrit. 2; H319 / Skin Irrit. 2; H315

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde: 0,1 % - 0,99 %

CAS-Number: 68039-49-6

EINECS / ELINCS / NLP: 268-264-1

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

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

delta-Damascone: 0,1 % - 0,99 %

CAS-Number: 57378-68-4

EINECS / ELINCS / NLP: 260-709-8

REACH registration No.: 01-2119535122-53

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

Acute Tox. 4; H302 / Aquatic Acute 1; H400 (M = 1) / Aquatic Chronic 1; H410 (M = 1) / Skin Irrit. 2; H315 / Skin Sens. 1A; H317

Isoeugenol: 0,1 % - 0,99 %

CAS-Number: 97-54-1

EU index number: 604-094-00-X

SAFETY DATA SHEET

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



Item number/ Trade name **11527-401-1**
Version/ Issue date: **12 / 11/21/2024**

Print date **01/08/2025**
Page **4 of 11**

EINECS / ELINCS / NLP: 202-590-7
REACH registration No.: 01-2120223682-61
Classification according to EC regulation 1272/2008 (CLP):
Acute Tox. 4; H302 / Acute Tox. 4; H312 / Acute Tox. 4; H332 / Eye Irrit. 2; H319 / STOT SE 3; H335 /
Skin Irrit. 2; H315 / Skin Sens. 1A; H317

Full text of H- and EUH-phrases: see section 16.

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
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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 , 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.
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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.

SAFETY DATA SHEET

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



Item number/ Trade name
Version/ Issue date:

11527-401-1

12 / 11/21/2024

Print date 01/08/2025
Page 5 of 11

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. Discharge into the environment must be avoided. If necessary notify appropriate authorities.

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. 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

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 11527-401-1

Version/ Issue date: 12 / 11/21/2024

Print date 01/08/2025
Page 6 of 11

SECTION 9: Physical and chemical properties

9.1 information on basic physical and chemical properties

Form liquid
Colour yellowish
Odour characteristic
Important health, safety and environmental information

	min	max		
Melting point/freezing point	< 20 °C	20 °C		
Initial boiling point and boiling range	---	---		
Flammability			---	
Explosion limits	---	---		
Flash point/flash point range	> 106 °C c.c.	---		
Ignition temperature	---	---		
PH	---	---	---	---
Viscosity	---	---	---	---
Solubility	---		---	---
Partition coefficient: n-octanol/water	---			---
Vapour pressure	0,146 hPa	---	20 °C	---
Density and/or relative density	0,892 g/cm ³	---	20 °C	---
Relative vapour density	---	---		---
Bulk density	---	---	---	
Flow time 4mm (DIN)	---			
Water solubility	---			

9.2 Other information

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-tert-Butylcyclohexyl acetate

oral	LD50	4600.0	mg/kg	-
Rat				
dermal	LD50	5000.0	mg/kg	-

SAFETY DATA SHEET

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



Item number/ Trade name
Version/ Issue date:

11527-401-1

12 / 11/21/2024

Print date 01/08/2025
Page 7 of 11

Rabbit

Toxicological tests: components

Methyl cinnamate

oral	LD50	2610.0	mg/kg	-
------	------	--------	-------	---

Rat

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

Rabbit

Toxicological tests: components

Undecan-4-olide

oral	LD50	18500.0	mg/kg	-
------	------	---------	-------	---

Rat

Toxicological tests: components

Allyl heptanoate

oral	LD50	218.0	mg/kg	-
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Rat

inhalative	LC50	3.0	alpha-Methylbenzyl alcohol	-
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dermal	LD50	810.0	mg/kg	-
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Rabbit

Toxicological tests: components

Cinnamaldehyde

oral	LD50	2200.0	mg/kg	-
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Rat

Toxicological tests: components

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one

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

Rat

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

Rabbit

Toxicological tests: components

Cinnamyl alcohol

oral	LD50	2000.0	mg/kg	-
------	------	--------	-------	---

Rat

Toxicological tests: components

alpha-methylcinnamaldehyde

oral	LD50	2050.0	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

4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one

oral	LD50	3940.0	mg/kg	-
------	------	--------	-------	---

Rat

Toxicological tests: components

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

SAFETY DATA SHEET

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

Item number/ Trade name
Version/ Issue date:

11527-401-1

12 / 11/21/2024

Print date 01/08/2025
Page 8 of 11

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

Rat

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

Rabbit

Toxicological tests: components

delta-Damascone

oral	LD50	1400.0	mg/kg	-
------	------	--------	-------	---

Rat

Toxicological tests: components

Isoeugenol

oral	LD50	1560.0	mg/kg	-
------	------	--------	-------	---

Rat

dermal	LD50	1770.0	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

Toxic to aquatic life with long lasting effects.

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.

SAFETY DATA SHEET

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



Item number/ Trade name
Version/ Issue date:

11527-401-1
12 / 11/21/2024

Print date 01/08/2025
Page 9 of 11

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.

SECTION 14: Transport information

14.1 UN number

ADR, IATA, IMDG UN3082

14.2 UN proper shipping name

Product designation: ADR/RID Environmentally hazardous substance, liquid n.o.s. (EXTRACTS, LIQUID)
Proper shipping name: IATA-DGR Environmentally hazardous substance, liquid, n.o.s. (EXTRAKTS, LIQUID)
Proper shipping name: IMDG Environmentally hazardous substance, liquid, n.o.s. (EXTRAKTS, LIQUID)

14.3 Transport hazard class(es)

Class ADR/RID 9
Classification code M6
ADR/RID
Class IATA-DGR 9
Subrisk IATA-DGR ---
Class IMDG 9
Subrisk IMDG ---

14.4 Packing group

ADR, IATA, IMDG III

14.5 Environmental hazards

Marine Pollutant - IMDG MARINE POLLUTANT
EmS F-A, S-F
Stowage and segregation Stowage Category A

14.6 Special precautions for user

14.7 Maritime transport in bulk according to IMO instruments

Additional information

EQ E1
Limited quantities 5L
Special Provisions ADR: 274, 335, 375, 601
IMDG: 274, 335, 969
IATA: A97, A158, A197
Tunnel restriction (-)
Transport category 3
Kemmler-number 90

SAFETY DATA SHEET

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



Item number/ Trade name 11527-401-1

Version/ Issue date: 12 / 11/21/2024

Print date 01/08/2025
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

Germany

Storage class	10
Water Hazard Class	2 deutlich wassergefährdend
Incident regulation	E2 Hazardous to the Aquatic Environment in Category Chronic 2
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:

11527-401-1

12 / 11/21/2024

Print date 01/08/2025
Page 11 of 11

SECTION 16: Other information

Hazard statements (CLP)

H301 Toxic if swallowed.
H302 Harmful if swallowed.
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.
H332 Harmful if inhaled.
H335 May cause respiratory 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.
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