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

1.1 Product identifier

fragrance composition

Item number/ Trade name

16402-401-3 Citronelle Essence

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 Acute 1; H400 Very toxic to aquatic life.

Aquatic Chronic 2; H411 Toxic 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 GHS09 Environment

Hazard statements

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Safety precautions

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.

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P321 Specific treatment (see ### 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

Citronellol(106-22-9); Citronellal(106-23-0)

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

Benzyl benzoate: 50 % - 74,99 %

CAS-Number: 120-51-4

EU index number: 607-085-00-9 EINECS / ELINCS / NLP: 204-402-9

REACH registration No.: 01-2119976371-33-XXXX

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

Acute Tox. 4; H302 / Aquatic Acute 1; H400 (M = 1) / Aquatic Chronic 2; H411

Diphenyl ether: 10 % - 24,99 %

CAS-Number: 101-84-8

EINECS / ELINCS / NLP: 202-981-2 REACH registration No.: 01-2119472545-33

REACH registration No.: 01-21194/2545-55

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

Aquatic Acute 1; H400 (M = 1) / Aquatic Chronic 3; H412 / Eye Irrit. 2; H319

Citronellal: 3 % - 9,99 % CAS-Number: 106-23-0

EINECS / ELINCS / NLP: 203-376-6 REACH registration No.: 01-2119474900-37

Classification according to EC regulation 1272/2008 (CLP): Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

Citronellol: 0,1 % - 0,99 % CAS-Number: 106-22-9

EINECS / ELINCS / NLP: 203-375-0

REACH registration No.: 01-2119453995-23-XXXX Classification according to EC regulation 1272/2008 (CLP): Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

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

SECTION 4: First aid measures

In case of inhalation

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. 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

Wear a self-contained breathing apparatus and chemical protective clothing.

for firefighters

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.

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

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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. 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

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treatment plant. Personal protection equipment: see section 8

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms Keep container tightly closed in a cool, well-ventilated place. Protect from

and containers 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 time10 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

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.

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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 | | |
| Initial boiling point and boiling | | | |
| range | | | |
| Flammability | | | |
| Explosion limits | | | |
| Flash point/flash point range | 110 °C c.c. | | |
| Ignition temperature | | | |
| PH | | | |
| Viscosity | | | |
| | | | |
| Solubility | | | |
| Partition coefficient: | | | |
| n-octanol/water | | | |
| Vapour pressure | 0,0301 hPa | | 20 °C |
| Density and/or relative density | 1,083 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

Benzvl benzoate

| oral | LD50 | 2000.0 | mg/kg | - |
|--------|------|--------|-------|---|
| Rat | | | | |
| dermal | LD50 | 4000.0 | mg/kg | - |



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Toxicological tests: components

Diphenyl ether

| oral | LD50 | 2450.0 | mg/kg | - |
|--------|------|--------|-------|---|
| Rat | | | | |
| dermal | LD50 | 7940.0 | mg/kg | - |
| Rabbit | | | | |

Toxicological tests: components

Citronellal

| Old Ollows | | | | | |
|------------|-----|--------|-------|---|--|
| oral LD | D50 | 2420.0 | mg/kg | • | |

Toxicological tests: components

Citronellol

| 0.0.0.0.0.0. | | | | |
|--------------|------|--------|-------|---|
| oral | LD50 | 3450.0 | mg/kg | - |
| Rat | | | | |
| dermal | LD50 | 2650.0 | 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

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Aquatic toxicity

12.2 Persistence and degradability

No data available Evaluation text 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.



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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) Environmentally hazardous substance, liquid, n.o.s. (EXTRAKTS, LIQUID) Proper shipping name: IATA-DGR Environmentally hazardous substance, liquid, n.o.s. (EXTRAKTS, LIQUID) Proper shipping name: IMDG

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

IIIADR, IATA, IMDG

14.5 Environmental hazards

MARINE POLLUTANT Marine Pollutant - IMDG

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

E1 EO Limited quantities

Special Provisions ADR: 274, 335, 375, 601

IMDG: 274, 335, 969 IATA: A97, A158, A197

Tunnel restriction (-)Transport category 3 Kemmler-number 90

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

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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 2 deutlich wassergefährdend

E2 Hazardous to the Aquatic Environment in Category Chronic 2 Incident regulation

Information on working limitations Observe employment restrictions for young people.

15.2 Chemical Safety Assessment

Chemical Safety Assessment

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



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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.

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 machandises dangereuses (Regulation on

the international carriage of dangerous goods by rail)

IATA International Air Transport Association
IMDG International Martime 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