

BATH AND BODY BASE

Version Date: 11/03/2024

# **Safety Data Sheet**

In accordance with REACH Regulation EC No.1907/2006

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

#### 1.1. Product identifier

 Product name:
 Carrot Seed Essential Oil

 CAS number:
 8015-88-1/84929-61-3

 EINECS number:
 616-965-1/284-545-1

Other names: Daucus Carota Seed Extract, Carrot Seed Essential Oil

INCI name: Daucus Carota Seed Oil

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

Industrial use: Washing and cleaning products.

**Professional use:** Washing and cleaning products; polishes and wax blends.

Consumer use: Washing and cleaning products; polishes and wax blends; air care

products; biocides; tobacco products; cosmetics.

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

Company name: Bath and Body Base Ltd

2A Laurel Way Bishop Auckland Co. Durham DL14 7NF

**Tel:** 07493 064263

Email: technical@bathandbodybase.com

# 1.4. Emergency telephone number

Emergency tel: 07493 064263

# Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according Skin Irrit. 3 – H316 to Regulation (EC) No Skin Sens. 1B – H317 1272/2008 [CLP]: Aquatic Chronic 2 – H411

#### 2.2. Label elements

Label elements labelling according to Regulation (EC) No 1272/2008 [CLP]

**Hazard statements:** H316: Causes mild skin irritation.

H317: May cause an allergic skin reaction.

H411: Harmful to aquatic life with long lasting effects.

Signal words: DANGER

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## **Hazard pictograms:**



**Precautionary statements** (prevention):

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

P264: Wash hands thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the

workplace.

P273: Avoid release to the environment.

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

**Precautionary statements** (response):

P302+P352: IF ON SKIN: wash with plenty of water.

P333+P317: IF SKIN irritation or rash occurs: Get medical help. P362+P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

**Precautionary statements** (storage):

P405: Store locked up.

**Precautionary statements** 

(disposal):

P501: Dispose of contents/container in accordance with local/ regional/national/international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements

apply to contents, container or both.

#### 2.3. Other hazards

Other hazards: All essential oils are highly concentrated so have strong aromas and

colour that can stain.

Carrot Seed oil contains over 11% Hydrocarbons. Emergency treatment for those who accidently swallow oils in this category is to seek medical attention immediately and transport sitting in a half-

upright position.

Substance is/is not identified as having endocrine disrupting

properties according to Regulation (EU) 2017/2100.

Substance meets/does not meet the criteria for vPvB and PBT

according to Regulation (EC) No 1907/2006, Annex XIII.

### Section 3: Composition/information on ingredients

#### 3.1. Chemical identity of the substance

Carrot Seed Ext. Chemical identity:

Common names(s), Daucus Carota I. Fruit Oil, Daucus Carota Fruit Oil, Daucus Carota

Seed Extract, Carrot Seed Essential Oil. synonym(s):

#### 3.2. **Substances**

Mixture/Natural Complex

Substance (NCS):

This is a Natural Complex Substance (NCS). The substance has a natural variability in its composition. It is obtained by steam distillation

of the seeds of Daucus Carota Sativa.

**Chemical Identity of** ingredients:

Classification according to COMMISSION REGULATION (EU) 2017/542 of 22 March 2017 amending Regulation (EC) No

1272/2008



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Major components of this natural complex substance are:

60 to 78% Carotol - CAS 465-28-1, EC 866-557-4: Skin Sens. 1B,

H317; Aquatic Chronic 2, H411

1 to 5% Daucol - CAS 887-08-1: Not registered

tr to 4% **β-Bisabolene** – CAS 495-61-4, EC 610-461-5: Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317, Acute Tox. 4, H332;

Aquatic Chronic 2, H411

tr to  $4\% \gamma$ -Muurolene – CAS 30021-74-0: not registered

tr to 3% cis-β-Farnesene – CAS 28973-97-9: not registered

tr to 3% β-Oplopenone – CAS 28305-60-4: not registered

tr to 1% **Methyl Eugenol** – CAS 93-15-2, EC 202-223-0: Acute Tox 4, H302; Mut. 2, H341; Carc. 2, H351; Aquatic Acute 2, H401

#### Section 4: First aid measures

## 4.1. Description of first aid measures

General advice: If health disorder happens, call for medical help immediately.

Immediately remove any soiled clothing.

**Skin contact:** If skin irritation continues, consult a doctor.

Eye contact: Rinse opened eye for several minutes under running water. If

symptoms persist, consult a doctor.

Swallowed: After swallowing: Seek immediate medical advice.

Inhalation: Supply fresh air and to be sure call for a doctor.

Self-protection of First Aider: Use personal protective equipment as described in Section 8 if

substance is present.

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

Most important symptoms and effects:

None specified.

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

Immediate/special treatment: No specific first aid measures noted.

### Section 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide, sand, dry chemical powder or appropriate/alcohol-

free foam.

Unsuitable extinguishing

media:

Full water jet.

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

Hazardous combustion

products:

May produce fumes of carbon monoxide and carbon dioxide, smoke

and soot.



## 5.3. Advice for fire-fighters

Advice for fire-fighters: Avoid inhalation of smoke and fumes. In case of insufficient

ventilation, wear suitable respiratory equipment. Firefighters should wear appropriate protective equipment and self-contained breathing

apparatus.

## 5.4. Emergency action code

**Emergency action code:** 3[Y] (Foam + BA & Fire Kit)

#### Section 6: Accidental release measures

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

For non-emergency personnel:

Use personal protective equipment. Avoid saturated vapour/aerosol /mist formation. Avoid breathing vapour/aerosol/mist. Ensure adequate ventilation and keep unprotected persons away. Keep away from ignition sources.

For emergency responders:

As per non-emergency personnel. Wear an appropriate NIOSH/MSHA approved respirator if mist, vapour or aerosol is generated.

#### 6.2. Environmental precautions

**Environmental precautions:** 

Do not allow material to be released to the environment (soil/surfaceor ground water/drains/sewers). Inform respective authorities in case of seepage into water course or sewage system.

# 6.3. Methods and material for containment and cleaning up

Clean-up procedures:

Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations. Pick up and arrange disposal without creating mist/aerosol/excessive vapours. Keep in upright, suitable, closed containers for disposal.

### 6.4. Reference to other sections

Reference to other sections:

Take hazard and precautionary phrases (Section 2) and Sections 7, 8 and 13 into account.

## Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Protective measures: Avoid formation of mist and aerosols. Provide appropriate exhaust

ventilation at places where mist/aerosols/excessive vapours are formed. Measures for preventive fire protection: keep away from ignition sources; take precautionary measures against static

discharges; do not smoke.

Advice on general occupational hygiene:

Wear appropriate protective clothing. Do not eat, drink or smoke in work areas. Wash hands after use. Remove contaminated clothing

and protective equipment before entering eating areas.



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

**Storage:** Keep container tightly closed in a cool, dry and well-ventilated place.

**Packaging:** Refer to Section 16 for safe packaging information.

**Incompatibilities:** Refer to Section 10.

### 7.3. Specific end use(s)

**Recommendations:** None specified (as per REACH dossier).

#### Section 8: Exposure controls/personal protection

# 8.1. Control parameters

Occupational exposure limits: Not available.

Additional exposure limits Not available.

under the conditions of use:

DNEL/DMEL and PNEC-Values:

Not available.

#### 8.2. Exposure controls



Engineering controls: Provide adequate ventilation according to the conditions of use to

keep airborne concentrations low.

**PPE – General:** It is recommended that facilities storing or utilising this material should

be equipped with an eyewash facility and a safety shower. Wear appropriate PPE according to Directive 89/686/EEC. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, using the bathroom and/or smoking. When using, do not eat, drink or smoke. Routinely wash work clothing and protective equipment to remove contaminants.

**PPE – Eye/face:** Use protection goggles according to EN166.

PPE – Skin: Hand

Chemical-resistant, impervious gloves complying with an approved standard (EN374) should be worn if handling substance. The quality of the protective gloves resistant to chemicals and the breakthrough time must be chosen as a function of the specific working place concentration and quantity of hazardous substances and length of time of exposure.

Other:

Wear protective clothing according to that recommended by the risk

assessment for the product's use.

PPE - Respiratory: Respiratory protection may be required if excessive airborne

contamination occurs.

**Environmental** Avoid discharge into the environment. Refer to additional information **exposure control:** provided in Sections 6 and 7 regarding safe handling and storage to

prevent exposure to individuals and/or to the environment. Refer to

official regulations (local/government).



## Section 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state: Clear mobile liquid

Colour: Light yellow to yellow

Odour: Characteristic

Relative density (specific

gravity):

@ 20°C: 0.920 to 0.960

**Refractive index:** @ 20°C: 1.490 to 1.510 **Optical rotation:** @ 20°C: +10° to +30°

**Solubility:** @ 25°C: UVCB - Solubilities of components from 0.0004 to 41.3mg/L

**Boiling point:** @ 101 325 Pa: 223.7°C

Vapour pressure: @ 25°C: 724 Pa

**Freezing point:** @ 101 325 Pa: < -20°C

Flash point: >110°C - supplier value for this very high (60 - 78%) carotol oil

(Pensky Martens Closed Cup method) FP for Carotol = 126.1±16.5°C; REACH dossier value = 72°C (assumed to be for

'standard' Carrot Seed Oil).

Flammability: The study does not need to be conducted because the substance is

a liquid that is known to be stable in contact with air and water at room temperature for prolonged periods of time (days) and it does not contain metals or metalloids; the classification procedure does not

need to be applied.

**Explosiveness:** The study does not need to be conducted because there are no

chemical groups present in the molecule which are associated with

explosive properties.

Auto-ignition temperature: @ 101 325 Pa: 250°C (REACH dossier FOR standard carrot seed

oil).

**Kinematic viscosity:** No data available (REACH dossier).

Partition coefficient

@ 25°C: log Kow = between 2.8 - 7.12 for Carrot seeds oil rich in

**n-octanol/water (log value):** carotol. Value for carotol = 4.81.

Relative vapour density: No data available (REACH dossier).

#### 9.2. Other information

Information with regard to physical hazard classes:

Categories not relevant for the safe use of this substance.

Other safety characteristics: Categories not relevant for the safe use of this substance.

## Section 10: Stability and reactivity

# 10.1. Reactivity

**Reactivity:** No information available.

# 10.2. Chemical stability

**Chemical stability:** No information available.

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## 10.3. Possibility of hazardous reactions

**Hazardous reactions:** No dangerous reactions known.

#### 10.4. Conditions to avoid

**Conditions to avoid:** Keep away from heat and flame.

#### 10.5. Incompatible materials

**Materials to avoid:** Oxidising agents, strong acids, strong alkalis.

#### 10.6. Hazardous decomposition product

**Haz. decomp. products:** No dangerous decomposition products expected by intended use.

### **Section 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity, oral: GHS criteria not met. LD50 (mice) > 5000mg/kg bw

Acute toxicity, inhalation: No studies available (REACH dossier)

Acute toxicity, dermal: No studies available (REACH dossier)

Eye irritation: GHS criteria not met for components of this very high carotol oil -

geraniol not present above 1% (H319 based on GHS criteria as

geraniol < 3% for standard carotol-type carrot seed oil).

**Skin irritation:** GHS criteria not met for components of this very high carotol oil -

Category 3 (irritant) (where >1 but ≤10% constituents are classed as

H315).

Skin sensitivity: Category 1B (skin sensitising) based on GHS criteria for main

component - Carotol (classified H317).

Mutagenicity/carcinogenicity: GHS criteria not met.

**Fertility/reproduction:** No studies available (REACH dossier).

STOT-single exposure: Conclusive but not sufficient for classification, data lacking (ECHA

C&L).

**STOT-repeated exposure:** Data lacking (ECHA C&L).

Aspiration hazard: GHS criteria not met for components of this very high carotol oil.

# 11.2. Information on other hazard classes which relates to endocrine disrupting properties

Other hazards: No information on other hazard classes specified.



## Section 12: Ecological information

## 12.1. Toxicity

Fish: No studies available (REACH dossier).

Algae: 72-h ErL50 = 13mg test material (for standard carrot seed oil rich in

carotol - REACH dossier) - OECD Guideline 201.

Aquatic invertebrates: Daphnia sp. 48-h EL50 = 11mg test material/L (for standard carrot

seed oil rich in carotol - REACH dossier) - OECD Guideline 202.

Microorganisms: No studies available (REACH dossier). Terrestrial arthropods: No studies available (REACH dossier).

#### 12.2. Persistence and degradability

Persistence and degradability:

Not readily biodegradable. Under test conditions with activated sludge only 47.76% biodegradation observed (ThODNH4, after 28 days of incubation - REACH dossier for standard carotol/geraniol carrot seed oils).

#### 12.3. **Bioaccumulative potential**

Bioaccumulative potential: Value for LogKow ranges between 2.8 -7.12 for Carrot seed oil rich in

carotol, the majority of components having LogKow >4.5 which indicates potential for bioaccumulation. LogKow for: Carotol = 4.81, Daucol = 3.13; β-Bisabolene = 7.12;  $\gamma$ -Muurolene = 6.27; cis-β-

Farnesene = 6.14;  $\beta$ -Oplopenone = 4.30.

12.4. Mobility in soil

> Mobility: No studies available (REACH dossier).

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

PBT identification: No studies available (REACH dossier).

#### 12.6. **Endocrine disrupting properties**

**Endocrine disrupting** properties:

Carrot Seed Oil is not on the ED-list (https://edlists.org/the-ed-lists) of endocrine disruptors meaning that it is not a substance identified as an endocrine disruptor at EU level (List I), a substance under evaluation for endocrine disruption under an EU legislation (List II) nor a substance considered, by the evaluating National Authority, to have endocrine disrupting properties (List III).

#### 12.7. Other adverse effects

Other adverse effects: No further information available (REACH dossier).

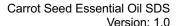
# Section 13: Disposal considerations

#### Waste treatment methods 13.1.

Product/packaging disposal: If empty container retains product residues, all label precautions must

be observed. Return for reuse or dispose according to national or

local regulations.



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Waste treatment – relevant

information:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations

to ensure complete and accurate classification.

Sewage disposal – relevant

information:

Waste should not be disposed of by release to sewers.

## 13.2. Special precautions for landfill and incineration

Special precautions for landfill and incineration:

Waste is suitable for incineration.

# **Section 14: Transport information**

UN number: 3082

**UN proper shipping name:** Environmentally hazardous substance, liquid, N.O.S

Transport hazard class(es): 9
Packaging group: III

**Transport labels:** 



**Environmental hazards:** See Section 2 - IMDG - Marine pollutant

**Special precautions for user:** Dangerous Goods Note

Tunnel Restriction code: 3 (E)

Maritime transport in bulk

according to IMO instruments:

UN3082 - Environmentally hazardous substance, liquid, N.O.S.

Class 9, Packing Group III

Marine Pollutant

# **Section 15: Regulatory information**

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

Specific regulations: The Chemicals (Hazard Information and Packaging for Supply)

Regulations 2009 (SI 2009 No 716)

## 15.2. Chemical Safety Assessment

Chemical safety assessment: No Chemical Safety Assessment has been carried out for this

substance/mixture by the supplier.

# Section 16: Other information

#### 16.1. Other information

### Packaging:

Туре	Suitability
Glass	Yes
Steel	Yes
Aluminium	Yes
F/HDPE	Yes
Stainless steel drum	Yes



Shelf life:

Other information:

Legal disclaimer:

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36 months when stored within advised conditions, re-test every 12 months thereafter for a possible further 24 months.

\* Indicates text in the SDS which has changed since the last revision.

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