

## **MATERIAL SAFETY DATA SHEET**

### **TAGETTE OIL (SOUTH AFRICA)**

<b>Section 1: Identification of the substance/mixture and of the company/undertaking</b>
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#### **1.1. Product identifier**

Product name: TAGETTE OIL SOUTH AFRICA

CAS number: 91770-75-1

EINECS number: 294-862-7

Index number: 3040

Synonyms: TAGETTE GLANDULIFERA, COMPOSITAE.

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

Use of substance / mixture: E.U Commodity Code: 3301 29 41 FDA: 172.510

Country of Origin: South Africa.

INCI Name: Tagette minuta.

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

G. Baldwin & Co.

173 Walworth Road,

LONDON, ENGLAND. SE17 1RW.

Telephone: +44 (0) 207 703 5550 Fax: +44 (0)207 252 6264

E-mail: [info@baldwins.co.uk](mailto:info@baldwins.co.uk)

Web: [www.baldwins.co.uk](http://www.baldwins.co.uk)

#### **1.4. Emergency telephone number**

Emergency tel: +44 (0) 207 703 5550

(office hours only)

<b>Section 2: Hazards identification</b>
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#### **2.1. Classification of the substance or mixture**

Classification under CLP: Aquatic Chronic 2: H411; Flam. Liq. 3: H226; Skin  
Corr. 1A: H314; Skin Sens. 1: H317

Most important adverse effects: Flammable liquid and vapour. Causes severe skin  
burns and eye damage. May cause an allergic skin reaction. Toxic to aquatic life  
with long lasting effects.

#### **2.2. Label elements**

Hazard statements: H226: Flammable liquid and vapour.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

Signal words: Danger

Hazard pictograms: GHS07: Exclamation mark

GHS09: Environmental

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P262: Do not get in eyes, on skin, or on clothing.

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

P273: Avoid release to the environment.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+352: IF ON SKIN: Wash with plenty of water/.

P391: Collect spillage.

### 2.3. Other hazards

Other hazards: Risk of explosion if heated under confinement.

PBT: This product is not identified as a PBT/vPvB substance.

<b>Section 3: Composition/information on ingredients</b>
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### 3.2. Mixtures

Hazardous ingredients:

#### D-LIMONENE

EINECS CAS PBT / WEL CLP Classification Percent

227-813-5 5989-27-5 Flam.

Liq. 3: H226; Skin Irrit. 2: H315;

Skin Sens. 1: H317; Aquatic Acute 1:

H400; Aquatic Chronic 1: H410

1-10%

### BETA CARYOPHELLENE

284-638-7 84961-50-2 Aquatic

Acute 1: H400; Aquatic

Chronic 1: H410; Skin Corr. 1A: H314;

Skin Sens. 1: H317

1-10%

### LINALOOL

201-134-4 78-70-6 Skin

Irrit. 2: H315; Eye Irrit. 2: H319 1-10%

### ALPHA-TERPINEOL

202-608-6 98-55-5 Skin

Irrit. 2: H315; Eye Irrit. 2: H319 1-10%

Contains: Essential oil of Tagette minuta, Compositae. (distilled)

## Section 4: First aid measures

### 4.1. Description of first aid measures

Skin contact:

Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

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

Immediate / special treatment: Not applicable.

<b>Section 5: Fire-fighting measures</b>
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#### **5.1. Extinguishing media**

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

Exposure hazards: In combustion emits toxic fumes.

#### **5.3. Advice for fire-fighters**

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## **Section 6: Accidental release measures**

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

Personal precautions:

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

### **6.2. Environmental precautions**

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

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

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### **6.4. Reference to other sections**

Reference to other sections: Refer to section 8 of SDS.

## **Section 7: Handling and storage**

### **7.1. Precautions for safe handling**

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Do not handle in a confined space. Avoid the formation or spread of mists in the air.

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

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

Suitable packaging: 3 months from date of despatch if kept under optimum conditions.

### **7.3. Specific end use(s)**

Specific end use(s): No data available.

<b>Section 8: Exposure controls/personal protection</b>
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### **8.1. Control parameters**

Workplace exposure limits: No data available.

#### **DNEL/PNEC Values**

DNEL / PNEC No data available.

### **8.2. Exposure controls**

Engineering measures: Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

## **Section 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

State: Liquid

Colour: Orange

Odour: Characteristic odour

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

Viscosity: Non-viscous

Flash point°C: 65 Part.coeff. n-octanol/water: 1.460 to 1.510

Vapour pressure: +5.0 to +15.0 Relative density: 0.850 to 0.930

pH: 4.5

### **9.2. Other information**

Other information: No data available.

## **Section 10: Stability and reactivity**

### **10.1. Reactivity**

Reactivity: Stable under recommended transport or storage conditions.

### **10.2. Chemical stability**

Chemical stability: Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**



Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

#### **10.4. Conditions to avoid**

Conditions to avoid: Heat.

#### **10.5. Incompatible materials**

Materials to avoid: Strong oxidising agents. Strong acids.

#### **10.6. Hazardous decomposition products**

Haz. decomp. products: In combustion emits toxic fumes.

<b>Section II: Toxicological information</b>
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#### **II.1. Information on toxicological effects**

Toxicity values:

Route Species Test Value Units

SKN RBT 500

mg/24H SEV

ORL RAT LD<sub>50</sub> 3700 mg/kg

IPR RAT LD<sub>50</sub> 450 mg/kg

Hazardous ingredients:

D-LIMONENE

IDU MUS LD<sub>50</sub> 1 g/kg

IPR MUS LD<sub>50</sub> 600 mg/kg

IPR RAT LD<sub>50</sub> 3600 mg/kg  
IVN RAT LD<sub>50</sub> 110 mg/kg  
ORL MUS TDLo 67g/kg 39 W-I: ETA  
ORL MUS LD<sub>50</sub> 5600 mg/kg  
ORL MUS TDLo 3456mg/kg (7-12D pre  
ORL RAT LD<sub>50</sub> 4400 mg/kg  
ORL RAT TDLo 20083mg/kg (9-15D pre

Relevant hazards for substance:

#### Hazard Route Basis

Skin corrosion/irritation DRM Hazardous: calculated  
Serious eye damage/irritation OPT Hazardous: calculated  
Respiratory/skin sensitisation DRM Hazardous: calculated

#### Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.  
Eye contact: There may be irritation and redness. The eyes may water profusely.  
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.  
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.  
Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

<b>Section 12: Ecological information</b>
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#### 12.1. Toxicity

Hazardous ingredients:

D-LIMONENE

ALGAE 48H EC<sub>50</sub> ≤1 mg/l

DAPHNIA 48H EC<sub>50</sub> ≤1 mg/l

FISH 96H LC<sub>50</sub> ≤1 mg/l

#### **12.2. Persistence and degradability**

Persistence and degradability: Not biodegradable.

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

Bioaccumulative potential: Bioaccumulation potential.

#### **12.4. Mobility in soil**

Mobility: Readily absorbed into soil.

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

PBT identification: This product is not identified as a PBT/vPvB substance.

#### **12.6. Other adverse effects**

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

<h3><b>Section 13: Disposal considerations</b></h3>
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#### **13.1. Waste treatment methods**

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

<b>Section 14: Transport information</b>
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**14.1. UN number**

UN number: UN3082

**14.2. UN proper shipping name**

Shipping name: Environmentally hazardous substance, liquid, n.o.s.

**14.3. Transport hazard class(es)**

Transport class: 3 (3082)

**14.4. Packing group**

**14.5. Environmental hazards**

Environmentally hazardous: Yes Marine pollutant: Yes

**14.6. Special precautions for user**

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: I

<b>Section 15: Regulatory information</b>
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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2. Chemical Safety Assessment**

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

Recommended for professional use only as an ingredient in perfumes and food flavours.

Recommended to check IFRA guidelines for use in perfumes.

Restricted by IFRA for use in perfumes (sensitiser).

Maximum dosage 0.25% (data from 1994).

Phrases used in s.2 and s.3:

H226: Flammable liquid and vapour.

H314: Causes severe skin burns and eye damage.

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.

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



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