

MATERIAL SAFETY DATA SHEET

RAVENSARA OIL (MADAGASCAR)

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| I Identification of the Substance/Mixture and of the Company/Undertaking |
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I.1 Trade Name

RAVENSARA OIL MADAGASCAR

I.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

No further relevant information available.

Application of the Substance/the Preparation - Multiple uses.

I.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

Web: www.baldwins.co.uk

I.4. Emergency telephone number

Emergency tel: +44 (0) 207 703 5550
(office hours only)

2 Hazards Identification

2.1 Classification of the Substance or Mixture:

Classification According to Regulation (EC) No. 1272/2008:

GHS02 Flame Flam. Liq. 3 H226 Flammable liquid and vapour.

GHS08 Health

Hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

GHS07 Skin Irrit. 2

Eye Irrit. 2

Skin Sens. 1

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Labelling According to Regulation

(EC) No. 1272/2008

The product is classified and labelled according to the CLP regulation.

Signal Word DANGER

Hazard-determining Components of Labelling

Eucalyptol

pin-2(3)-ene

Beta pinene

d-limonene

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label Elements:

Hazard Statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor.

P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing.

Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other Hazards:

No further information available at this time.

Results of PBT Assessment

Not applicable.

Results of vPvB Assessment

Not applicable.

Substances Description Ravensara Oil Madagascar

CAS Number 91770-86-8

EC Number 294-842-8

3 Composition/Information on Ingredients

3.1 Chemical Characterisation:

Mixtures:

Description NCS (UVCB) Constituents Information.

3.2 Hazardous Components:

ID Numbers Chemical Name, Classification & Hazards Quantity (%)

CAS: 470-82-6

EINECS: 207-431-5

Eucalyptol

Flam. Liq. 3, H226; Skin Sens. 1, H317

50-100

CAS: 98-55-5

EINECS: 202-680-6

p-menth-1-en-8-ol

Skin Irrit. 2, H315; Eye Irrit. 2, H319

2.5-10

CAS: 80-56-8

EINECS: 201-291-9

pin-2(3)-ene

Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315;

Skin Sens. 1, H317

2.5-10

CAS: 127-91-3

EINECS: 204-872-5

beta pinène

Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315;

Skin Sens. 1, H317

2.5-10

CAS: 562-74-3

EINECS: 209-235-5

p-menth-1-en-4-ol

Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319

=2.5CAS: 123-35-3

EINECS: 204-622-5

7-methyl-3-methyleneocta-1,6-diene

Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315;

Eye Irrit. 2, H319

=2.5

CAS: 99-85-4

EINECS: 202-794-6

gamma terpinene

Flam. Liq. 3, H226; Asp. Tox. 1, H304

=2.5CAS: 5989-27-5

EINECS: 227-813-5

d-limonene

Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1,

H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin

Sens. 1, H317

=2.5CAS: 79-92-5

EINECS: 201-234-8

camphene

Flam. Sol. 2, H228; Aquatic Acute 1, H400; Aquatic Chronic

1, H410; Eye Irrit. 2, H319

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2.5 Additional Information

For the wording of the listed risk phrases refer to Section 16.

4 First Aid Measures

4.1 Description of First Aid Measures:

Inhalation Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Supply fresh air.

Skin Contact Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water. If skin irritation continues, consult a doctor.

Eye Contact Rinse opened eye for several minutes under running water. Then consult a doctor.

Ingestion Inform doctor. Don not give milk or fatty oils.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

No further relevant information available.

4.3 Indication of Immediate Medical Attention and Special Treatment Needed

No further relevant information available.

5 Fire-fighting Measures

5.1 Extinguishing Media

Carbon dioxide (CO₂), sand or extinguishing powder.

Unsuitable Extinguishing Agents Water and water with full jet.

5.2 Special Hazards Arising from the Substance or Mixture

Carbon monoxide (CO).

5.3 Advice for Fire-fighters

No special measures required.

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| 6 Accidental Release Measures |
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6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental Precautions

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.

6.3 Methods and Material for Containment and Cleaning Up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

6.4 Reference to Other Sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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| 7 Handling and Storage |
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7.1 Precautions for Safe Handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about Fire

Keep ignition sources away. Do not smoke. Protect

Explosion Protection against electrostatic charges.

7.2 Conditions for Safe Storage

Store only in unopened original receptacles. Store in the dark.

7.3 Specific End Use(s)

No further relevant information available.

8 Exposure Controls/Personal Protection

8.1 Control Parameters:

Ingredients with Limit Values that

Require Monitoring at the Workplace

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional Information – the lists valid during the making were used as basis.

8.2 Exposure Controls:

Personal Protective Equipment

No information available.

General Protective and Hygienic Measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Respiratory Protection Not required.

Hand Protection Protective gloves. The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye Protection Tightly sealed goggles.

9 Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties:

Appearance Liquid.

Colour According to Product Specification.

Odour Characteristic.

Melting Point/Melting Range Undetermined.

Boiling Point/Boiling Range Undetermined.

Flash Point (Pensky Martens DIN

51 758 Method)

50°C

Flammability (Solid, gaseous) Not applicable.

Decomposition Temperature Not determined.

Self-ignition Product is not self-igniting.

Danger of Explosion Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Density at 20°C 0.900 –

0.915 g/cm³

Evaporation Rate Not determined.

Solubility in/Miscibility with Water Not miscible or difficult to mix.

9.2 Other Information No further relevant information available.

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| 10 Stability and Reactivity |
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10.1 Reactivity

Not determined.

10.2 Chemical Stability

Not determined.

Thermal Decomposition/Conditions to Avoid

No decomposition if used according to specifications.

10.3 Possibility of Hazardous Reactions

No dangerous reactions known.

10.4 Conditions to Avoid

No further relevant information available.

10.5 Incompatible Materials

No further relevant information available.

10.6 Hazardous Decomposition Products

No dangerous decomposition products known.

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| 11 Toxicological Information |
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11.1 Information on Toxicological Effects

Acute Toxicity:

Primary Irritant Effect On the Skin Irritant to skin and mucous membranes.

Sensitisation Sensitisation possible through skin contact.

Additional Toxicological

Information

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for

Preparations as issued in the latest version: Irritant.

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| <h2>12 Ecological Information</h2> |
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12.1 Toxicity

No further relevant information available.

12.2 Aquatic Toxicity

No further relevant information available.

12.3 Persistence and Degradability

No further relevant information available.

12.4 Mobility in Soil

No further relevant information available.

Ecotoxical Effects - Harmful to fish. Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms.

12.5 Results of PBT and vPvB Assessment

Not applicable.

12.6 Other Adverse Effects

No further relevant information available.

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| 13 Disposal Considerations |
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13.1 Waste Treatment

Methods

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned Packaging Disposal must be made according to official regulations.

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| 14 Transport Information |
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14.1 UN Number

(ADR, IMDG, IATA)

UN1169

14.2 UN Proper Shipping Name

(ADR) 1169 EXTRACTS, AROMATIC, LIQUID (not viscous)

(IMDG) EXTRACTS, AROMATIC, LIQUID (alpha-PINENE, beta
pinene), MARINE POLLUTANT

(IATA) EXTRACTS, AROMATIC, LIQUID

14.3 Transport Hazard Class(es)

(ADR) Class

Label 3 (F1) Flammable liquids.

3

(IMDG)

Class

Label

3 Flammable liquids.

3

(IATA)

Class

Label

3 Flammable liquids.

3

14.4 Packing Group

(ADR, IMDG, IATA)

III

14.5 Environmental Hazards

Marine Pollutant

Product contains environmentally hazardous substances: pin-2(3)-ene, beta pinene.

Yes

Symbol (fish and tree)

14.6 Special Precautions for User

Danger Code (Kemler)

EMS Number

Warning: Flammable liquids.

30

F-E, S-D

14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

14.8 Transport/Additional Information

(ADR)

Limited Quantities (LQ)

Excepted Quantities (EQ)

Transport Category

Tunnel Restriction Code

5L

Code: EI

Maximum net quantity per inner packaging: 30ml.

Maximum net quantity per outer packaging: 1000ml.

3

D/E

(IMDG)

Limited Quantities (LQ)

Excepted Quantities (EQ)

5L

Code: EI

Maximum net quantity per inner packaging: 30ml.

Maximum net quantity per outer packaging: 1000ml.

14.9 UN “Model Regulation”

UN1169, EXTRACTS, AROMATIC, LIQUID (not viscous),

3, III

15 Regulatory Information

15.1 Safety, Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture

No relevant information available at this time.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16 Other Information

16.1 Relevant Phrases:

Wording of any Hazard Statements Listed in Section 3:

H226 Flammable liquid and vapour.

H228 Flammable solid.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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.

16.2 Abbreviations and Acronyms:

RID Regulations Concerning the International Transport of Dangerous Goods by Rail.

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road.

IMDG International Maritime Code for Dangerous Goods.

IATA International Air Transport Association.

ICAO International Civil Aviation Organisation.

GHS Globally Harmonised System of Classification and Labelling of Chemicals.

EINECS European Inventory of Existing Commercial Chemical Substances.

ELINCS European List of Notified Chemical Substances.

CAS Chemical Abstracts Service (Division of the American Chemical Society).

Flam. Liq. 3 Flammable liquids, Hazard Category 3.

Flam. Sol. 1 Flammable solids, Hazard Category 1.

Acute Tox. 4 Acute toxicity, Hazard Category 4.

Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2.

Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2.

Skin Sens. 1 Sensitisation –

Skin, Hazard Category 1.

Asp. Tox. 1 Aspiration hazard, Hazard Category 1.

Aquatic Acute 1 Hazardous to the aquatic environment –

Acute Hazard, Category 1.

Aquatic Chronic 1 Hazardous to the aquatic environment –

Chronic Hazard, Category 1.

Aquatic Chronic 3 Hazardous to the aquatic environment –

Chronic Hazard, Category 3.

WARNING/DISCLAIMER:

The information in this Material Safety Data Sheet is based on the properties of the material known to Baldwins at the time the data sheet was issued. The safety data sheet is intended to provide information for health and safety assessment of the material and the circumstances under which it is packaged, stored or applied in the workplace. This document is not intended for quality assurance purposes.



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