

MATERIAL SAFETY DATA SHEET

EUCALYPTUS OIL (RADIATA)

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

EUCALYPTUS OIL RADIATA

Biological Definition Eucalyptus Radiata Flower/Leaf/Stem Oil is the volatile oil obtained from the flowers, leaves and stems of Eucalyptus, Eucalyptus radiata var.

Australiana, Myrtaceae.

INCI Name Eucalyptus Radiata Flower/Leaf/Stem Oil

CAS Number 92201-64-4

EINECS Number 295-995-3

1.2 Manufacturer/Supplier

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

1.4. Emergency telephone number

Emergency tel: +44 (0) 207 703 5550

(office hours only)

2. Hazards Identification

2.1 Classification

(EC 1272/2008):

Physical Flam. Liq. 3 –H226

Health Skin Sens. 1 –H317; Tox. 1 –H304

Environmental Aquatic Chronic 2 –H411

Label in Accordance with (EC) No. 1272/2008:

Signal Word DANGER

Contains Alpha-Pinene, beta-Pinene, Limonene

Hazard Statements H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary

Statements

P273 Avoid release to the environment.

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

Supplementary Precautionary Statements

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

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

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

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P301+P310 IF SWALLOWED: Immediately call a Doctor.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P321 Specific treatment (see on this label).

P331 Do NOT induce vomiting.

P333+P313 If skin irritation occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use foam/carbon dioxide/dry powder for extinction.

P391 Collect spillage.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container to approved disposal site, in accordance with local regulations.

PBT or vPvB According to Annex XIII

No additional data available.

Adverse Physiochemical

Properties

No additional data available.

Adverse Effects on

Human Health

No additional data available.

3. Composition/Information on Ingredients

Ingredient % CAS No. EC No. Classification (EC 1272/2008)

Cineol

60-100 470-67-7 207-428-9 Flam. Liq. 3 –H226

Alpha-terpineol

10-30 98-55-5 202-680-6 Skin Irrit. 2 –H315

Alpha-Pinene

5-10 80-56-8 201-291-9 Flam. Liq. 3 –H226

Skin Irrit. 2 –H315

Skin Sens. 1 –H317

Asp. Tox. 1 –H304

Limonene

5-10 5989-27-5 227-813-5 Flam. Liq. 3 –H226

Skin Irrit. 2 –H315

Asp. Tox. 1 –H304

Skin Sens. 1 –H317

Beta-Pinene

1-5 127-91-3 204-872-5 Flam. Liq. 3 –H226

Skin Sens. 1 –H317

Asp. Tox. 1 –H304

Aquatic Chronic 1 –H410

4-Terpineol

1-5 562-74-3 209-235-5 Acute Tox. 4 –H302

Skin Irrit. 2 –H315

Para-Cymene

1-5 99-87-6 202-796-7 Flam. Liq. 3 –H226

Asp. Tox. 1 –H304

Aquatic Chronic 2 –H411

Geraniol

<1 106-24-1 203-377-1 Skin Irrit. 2 –H315

Eye Dam. 1 –H318

Skin Sens. 1 –H317

4 First Aid Measures

4.1 Description of First Aid Measures:

Inhalation May cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion If necessary, rinse mouth and provide fresh air. Get medical attention if discomfort continues.

Skin Contact If necessary, remove contaminated clothing and wash skin with soap and water.

Get medical attention if any discomfort continues.

Eye Contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Observe risk of aspiration if vomiting occurs.

4.3 Indication of Any Immediate Medical

Attention and Special Treatment Needed

Treat symptomatically.

5. Fire-fighting Measures

5.1 Extinguishing Media

Fire can be extinguished using: Foam, carbon dioxide or dry powder.

5.2 Special Hazards Arising from the Product

Containers close to fire should be removed or cooled with water.

No unusual fire or explosion hazards noted. When heated and in case of fire, toxic vapours/gases may be formed.

5.3 Advice for Fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use protective gloves, goggles and suitable protective clothing. In case of spills, beware of slippery floors and surfaces.

6.2 Environmental Precautions

Do not discharge into drains, water courses or onto the ground.

6.3 Methods and Material for Containment and Cleaning Up

Absorb with inert, damp, non-combustible material, then flush area with water. Shovel into dry containers. Cover and move the containers. Flush the area with water.

6.4 Reference to Other Sections

See protective measures under point 7 and 8.

7. Handling and Storage

7.1 Precautions for Safe Handling Avoid spilling, skin and eye contact

Ensure adequate ventilation of the working area. Adopt best manual handling considerations when handling, carrying and dispensing. Store in a tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flames. Protect from freezing and direct sunlight.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed.

7.3 Specific End Use(s)

No additional data available.

8 Exposure Controls/Personal Protection

8.1 Control Parameters

No additional data available.

8.2 Exposure Controls:

Protective Equipment If required wear goggles, gloves, overalls

Process Conditions: Technical measures and the application of suitable work processes have priority over personal protection equipment.

Engineering Measures: No additional data available.

Respiratory Equipment: No specific recommendation made, but respiratory protection may still be required under exceptional circumstances, when excessive air contamination exists.

Hand Protection: Protective gloves should be used if there is a risk of direct contact or splash. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Take recovery periods for skin regeneration.

Eye Protection: If risk of splashing, wear safety goggles or face shield. Use protection goggles according to EN166.

Other Protection: Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene Measures; No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

Personal Protection: Use personal protection according to Directive 89/686/EEC.

Skin Protection: Wear apron or protective clothing in case of splashes.

Environmental Exposure Controls: Avoid discharging into drainage water. Only remove via authorised companies.

9 Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties:

Appearance Mobile oily clear liquid.

Colour Colourless to pale yellow.

Odour Characteristic.

Relative Density 0.906 – 0.925 @ 20°C

Flash Point 42°C

Refractive Index 1.457 – 1.470 @ 20°C

Melting Point (°C)

No additional data available.

Boiling Point (°C)

No additional data available.

Vapour Pressure

No additional data available.

Solubility in Water @ 20°C

Insoluble in water.

Auto-ignition Temperature (°C)

No additional data available.

10 Stability and Reactivity

10.1 Reactivity

No dangerous reactions known.

10.2 Chemical Stability

Stable under normal temperature conditions.

10.3 Possible Hazardous Reactions

No dangerous reactions expected if used according to specifications.

10.4 Conditions to Avoid

Avoid heat, flames and other sources of ignition.

10.5 Incompatible Materials

Strong oxidising substances. Strong acids. Strong alkalis.

10.6 Hazardous Decomposition Products

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

<h3>11 Toxicological Information</h3>
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11.1 Acute Toxicity

No specific health warnings noted. No harmful effects expected in amounts likely to be ingested by accident.

11.2 Skin Corrosion/Irritation

No specific health warnings noted.

11.3 Serious Eye Damage/Irritation

Spray and vapour in the eyes may cause irritation and smarting.

11.4 Respiratory or Skin Sensitisation

In high concentrations, vapours may irritate throat and respiratory system.

11.5 Germ Cell Mutagenicity

No additional data available.

11.6 Carcinogenicity

No additional data available.

II.7 Reproductive Toxicity

No additional data available.

II.8 STOT –Single Exposure

No additional data available.

II.9 STOT –Repeated Exposure

No additional data available.

II.10 Aspiration Hazard

No additional data available.

II.11 Photo-toxicity

No additional data available.

II.12 Other Information

No additional data available.

12 Ecological Information

12.1 Toxicity

No additional data available.

12.2 Persistence & Degradability

No additional data available.

12.3 Bioaccumulation Potential

No additional data available.

12.4 Mobility

No additional data available.

12.5 Results of PBT and vPvB Assessment

No additional data available.

12.6 Other Adverse Effects

No additional data available.

<h2>13 Disposal Considerations</h2>
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13.1 General Information

Waste is suitable for incineration.

13.2 Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

<h2>14 Transport Information</h2>
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14.1 Warning Icon

14.2 Proper Shipping Name

EXTRACTS, AROMATIC, LIQUID

14.3 UN No. Road 1169

14.4 ADR Class 3

14.5 ADR Packing Group III

14.6 Hazard No (ADR) 30

14.7 Hazchem Code 3YE

14.8 Tunnel Restriction Code (D/E)

14.9 UN No. SEA 1169

14.10 IMDG Class 3

14.11 IMDG Pack Group III

14.12 EMS F-E, S-D

14.13 UN No. AIR 1169

14.14 Air Class 3

14.15 Air Pack Group III

**14.16 Environmental Hazards Environmentally Hazardous
Substance/Marine Pollutant.**

14.17 Special Precautions for User

See Section 6 to 8.

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

Packed and transferred according to transport regulations.

15 Regulatory Information

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

Statutory Instruments The Chemicals (Hazard Information and Packaging for Supply)

Regulations 2009 (S.I 2009 No. 716).

Guidance Notes Workplace Exposure Limits EH40, CHIP for everyone HSG(108).

EU Legislation Regulation (EC) No 1907/2006 of the European Parliament and of the

Council of 18th December 2006 Concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.

15.2 Chemical Safety Assessment

No additional information available.

16 Other Information

16.1 Revision Date

03/2016

16.2 Rev No/Repl, SDS Generated 1

16.3 Hazard Statements

H318 Causes serious eye damage.

H315 Causes skin irritation.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

16.4 Other information

None

WARNING/DISCLAIMER:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated.

However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



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