

CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION AND COMPOSITION

Product Name: Bug Repellent – Essential Oil Blend

Batch Number: 4398510
Best Before End: June 2023
Country of Manufacture: United Kingdom

PHYSICAL AND CHEMICAL PROPERTIES

TEST SPECIFICATION RESULT

Appearance: Clear, mobile liquid Conforms
Odour: Characteristic aroma Conforms

STORAGE CONDITIONS

Stored at temperature <30°C in closed containers and protected from direct sunlight.

ADDITIONAL INFORMATION

DISCLAIMER

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Version: 1 (10/10/2018)

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: BUG REPELLENT EOB.BUG.REPE

Version: 1

Section 1. Identification of the substance or the mixture and of the supplier

1.1 Product Identifier

Product identifier: BUG REPELLENT EOB.BUG.REPE(Contains:Citral, Eucalyptol, Thymol, p-Cymene)

Other identifiers: None

1.2 Relevant identified uses of the substance of mixture and uses advised against

Product uses: Fragrances

1.3 Details of the supplier of the safety data sheet

Company name: MADAR Corporation Limited

Company address: 19-20 Sandleheath Industrial Estate

Fordingbridge, Hampshire. SP6 1PA

Approved sellers: Mystic Moments, New Directions, World of Moulds

Contact: MADAR Corporation Limited E-Mail address: sales@madarcorporation.co.uk

+44 (0) 1425 655555 Company phone:

1.4 Emergency telephone number

+44 (0) 1425 655555 **Emergency phone:**

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

danger:

Class and category of Flammable Liquid, Hazard Category 3

Skin Corrosion / Irritation Category 1B Eye Damage / Irritation Category 1 Sensitization - Skin Category 1

Aspiration Hazard Category 1

Hazardous to the Aquatic Environment - Long-term Hazard Category 2

H226, Flammable liquid and vapour.

H304, May be fatal if swallowed and enters airways. H314, Causes severe skin burns and eye damage.

H317, May cause an allergic skin reaction.

H411, Toxic to aquatic life with long lasting effects.

2.2 Label elements

Signal word: Danger





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Hazard statements: H226, Flammable liquid and vapour.

H304, May be fatal if swallowed and enters airways. H314, Causes severe skin burns and eye damage.

H317, May cause an allergic skin reaction.

H411, Toxic to aquatic life with long lasting effects.

Supplemental Information:

EUH208, Contains Carvacrol, Citronellal, Geraniol, Geranyl acetate, Isocitral #2, Isocitral #3, Linalool, alpha-Pinene, beta-Caryophyllene, beta-Pinene, d,I-Isomenthone, dI-Citronellol, I-

Limonene, trans-p-Menthan-3-one. May produce an allergic reaction.

Precautionary statements:

P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

P233, Keep container tightly closed.

P240, Ground/bond container and receiving equipment.

P241, Use explosion-proof electrical, ventilating and lighting equipment.

P242, Use only non-sparking tools.

P243, Take precautionary measures against static discharge.

P260, Do not breathe vapour or dust.

P264, Wash hands and other contacted skin 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/eye protection/face protection.

P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P301/330/331, If swallowed: Rinse mouth. Do not induce vomiting.

P303/361/353, IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304/340, IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310, Immediately call a POISON CENTER or doctor/physician.

P331, Do not induce vomiting.

P333/313, If skin irritation or rash occurs: Get medical advice/attention.

P363, Wash contaminated clothing before reuse.

P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.

P391, Collect spillage.

P403/235, 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.



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Other hazards: None

Section 3. Composition / information on ingredients

3.2 Mixtures

Contains:

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008
Citral	5392-40-5	226-394-6		20-<50%	SCI 2-EDI 2-SS 1B; H315-H317-H319,-
Eucalyptol	470-82-6	207-431-5		10-<20%	FL 3-SS 1B;H226- H317,-
Thymol	89-83-8	201-944-8		10-<20%	ATO 4-SCI 1B-EDI 1- EH C2;H302-H314- H411,-
Citronellal	106-23-0	203-376-6		5-<10%	SCI 2-EDI 2-SS 1B; H315-H317-H319,-
Geraniol	106-24-1	203-377-1		5-<10%	SCI 2-EDI 1-SS 1; H315-H317-H318,-
dl-Citronellol	106-22-9	203-375-0		5-<10%	SCI 2-EDI 2-SS 1B; H315-H317-H319,-
p-Cymene	99-87-6	202-796-7		1-<5%	FL 3-AH 1-EH C2; H226-H304-H411,-
l-Limonene	5989-54-8	227-815-6		1-<5%	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226- H304-H315-H317- H410,-
p-Mentha-1,4-diene	99-85-4	202-794-6		1-<5%	FL 3-AH 1;H226-H304,
Terpene and sesquiterpene hydrocarbons	UKNOWN			1-<5%	AH 1;H304,-
Geranyl acetate	105-87-3	203-341-5		1-<5%	SCI 2-SS 1B-EH C3; H315-H317-H412,-
Linalool	78-70-6	201-134-4		1-<5%	SCI 2-EDI 2-SS 1B; H315-H317-H319,-
d,I-Isomenthone	491-07-6	207-727-4		1-<5%	SCI 2-SS 1B;H315- H317,-
beta-Caryophyllene	87-44-5	201-746-1		0.1-<1%	SS 1B-AH 1;H304- H317,-
alpha-Pinene	80-56-8	201-291-9		0.1-<1%	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226- H304-H315-H317- H410,-
Carvacrol	499-75-2	207-889-6		0.1-<1%	ATO 4-SCI 2-EDI 2-SS 1B;H302-H315-H317- H319,-
trans-p-Menthan-3-one	89-80-5	201-941-1		0.1-<1%	SCI 2-SS 1B;H315- H317,-
Isocitral #3	UKNOWN			0.1-<1%	EDI 2-SS 1B-EH C3; H317-H319-H412,-





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Camphene	79-92-5	201-234-8	0.1-<1%	FL 3-FS 2-EH A1-EH
Isocitral #2	72203-98-6		0.1-<1%	C1;H226-H228-H410,- EDI 2-SS 1B-EH C3; H317-H319-H412
Myrcene	123-35-3	204-622-5	0.1-<1%	FL 3-SCI 2-EDI 2-AH 1; H226-H304-H315- H319,-
p-Mentha-1,3-diene	99-86-5	202-795-1	0.1-<1%	FL 3-ATO 4-AH 1-EH C2;H226-H302-H304- H411,-
beta-Pinene	127-91-3	204-872-5	0.1-<1%	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226- H304-H315-H317- H410,-
Terpinolene	586-62-9	209-578-0	<0.1%	SS 1B-AH 1-EH A1-EH C1;H304-H317-H410,-

Substances with Community workplace exposure limits:

Not Applicable

Substances that are persistent, bioaccumulative and toxic or very persistent and very bioaccumulative, greater than 0.1%:

Not Applicable

Section 4. First-aid measures

4.1 Description of first aid measures

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

If swallowed: Rinse mouth. Do not induce vomiting.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.





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5.2 Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

6.3 Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

6.4 Reference to other sections:

Also refer to sections 8 and 13.

Section 7. Handling and storage

7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

7.2 Conditions for safe storage, including any incompatibilities:

Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

7.3 Specific end use(s):

Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits: Not Applicable

8.2 Exposure Controls

Eye / Skin Protection

Wear protective gloves/eye protection/face protection



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Respiratory Protection

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Odour:

Not determined

Flash point: $> 47 \, ^{\circ}\text{C}$

Evaporation rate:Not determined
Flammability (solid, gas):
Not determined

Upper/lower flammability or explosive limits: Product does not present an explosion hazard

Vapour pressure: Not determined Vapour density: Not determined Relative density: Not determined Solubility(ies): Not determined Partition coefficient: n-octanol/water: Not determined **Auto-ignition temperature:** Not determined **Decomposition temperature:** Not determined Viscosity: Not determined **Explosive properties:** Not expected Oxidising properties: Not expected

9.2 Other information: None available

Section 10. Stability and reactivity

10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

10.2 Chemical stability:

Good stability under normal storage conditions.



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10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

10.4 Conditions to avoid:

Avoid extreme heat.

10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

10.6 Hazardous decomposition products:

Not expected.

Section 11. Toxicological information

11.1 Information on toxicological effects

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP).

Acute Toxicity:Based on available data the classification criteria are not met.

Acute Toxicity Oral 3644
Acute Toxicity Dermal >5000

Acute Toxicity Inhalation Not Available

Skin corrosion/irritation:Skin Corrosion / Irritation Category 1BSerious eye damage/irritation:Eye Damage / Irritation Category 1Respiratory or skin sensitisation:Sensitization - Skin Category 1

Germ cell mutagenicity:

Based on available data the classification criteria are not met.

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Aspiration hazard: Aspiration Hazard Category 1

Information about hazardous ingredients in the mixture

Ingredient	CAS	EC	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
Thymol	89-83-8	201-944-8	980	Not available	IIVIOT AVAIIANIE	Not available

Refer to Sections 2 and 3 for additional information.

Section 12. Ecological information

12.1 Toxicity:

Toxic to aquatic life with long lasting effects.





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12.2 Persistence and degradability: Not available

12.3 Bioaccumulative potential: Not available

12.4 Mobility in soil: Not available

12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects: Not available

Section 13. Disposal considerations

13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

14.1 UN number: UN2920

14.2 UN Proper Shipping Name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Thymol, Eucalyptol)

14.3 Transport hazard class(es): 8

Sub Risk: 3

14.4. Packing Group:

14.5 Environmental hazards: This is an environmentally hazardous substance.

14.6 Special precautions for user: None additional

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable

Section 15. Regulatory information

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

None additional

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

Section 16. Other information

Concentration % Limits: EH C2=41.69% EH C3=4.16% SCI 1B=50.00% SCI 1C=50.00% SCI 2=6.

55% EDI 1=16.24% EDI 2=4.49% SS 1=5.00% AH 1=64.72%

Total Fractional Values: EH C2=2.40 EH C3=24.06 SCI 1B=2.00 SCI 1C=2.00 SCI 2=15.27 EDI

1=6.16 EDI 2=22.29 SS 1=20.00 AH 1=1.55

Key to revisions:

Not applicable



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Key to abbreviations:

Abbreviation	Meaning	
AH 1	Aspiration Hazard Category 1	
ATO 4	Acute Toxicity - Oral Category 4	
EDI 1	Eye Damage / Irritation Category 1	
EDI 2	Eye Damage / Irritation Category 2	
EH A1	Hazardous to the Aquatic Environment - Acute Hazard Category 1	
EH C1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1	
EH C2	Hazardous to the Aquatic Environment - Long-term Hazard Category 2	
EH C3	Hazardous to the Aquatic Environment - Long-term Hazard Category 3	
FL 3	Flammable Liquid, Hazard Category 3	
FS 2	Flammable Solid, Hazard Category 2	
H226	Flammable liquid and vapour.	
H228	Flammable solid.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
P210	Keep away from heat, sparks, open flames and hot surfaces No smoking.	
P233	Keep container tightly closed.	
P240	Ground/bond container and receiving equipment.	
P241	Use explosion-proof electrical, ventilating and lighting equipment.	
P242	Use only non-sparking tools.	
P243	Take precautionary measures against static discharge.	
P260	Do not breathe vapour or dust.	
P261	Avoid breathing vapour or dust.	
P264	Wash hands and other contacted skin thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P272	Contaminated work clothing should not be allowed out of the workplace.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/eye protection/face protection.	
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P301/312	IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.	
P301/330/331	If swallowed: Rinse mouth. Do not induce vomiting.	
P302/352	IF ON SKIN: Wash with plenty of soap and water.	



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P303/361/353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.		
P304/340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.		
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P310	Immediately call a POISON CENTER or doctor/physician.		
P330	Rinse mouth.		
P331	Do not induce vomiting.		
P332/313	If skin irritation occurs: Get medical advice/attention.		
P333/313	If skin irritation or rash occurs: Get medical advice/attention.		
P337/313	If eye irritation persists: Get medical advice/attention.		
P362	Take off contaminated clothing and wash before reuse.		
P363	Wash contaminated clothing before reuse.		
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.		
P391	Collect spillage.		
P403/235	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.		
SCI 1B	Skin Corrosion / Irritation Category 1B		
SCI 2	Skin Corrosion / Irritation Category 2		
SS 1	Sensitization - Skin Category 1		
SS 1B	Sensitization - Skin Category 1B		

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.



Date: 23/11/2018

Re: Vegan Suitability

We can confirm that the all of the Essential Oil Blends supplied by the MADAR Corporation are produced with vegan friendly essential oils.