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SAFETY DATA SHEET

Printed on 01 May 2014

Code Number : NAT-11569

Version 0 Revised

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Compound Name : CITRONELLA OIL{B106}
Code Number : NAT-11569
Product Type & Use : Concentrated material for manufacturing purposes only.
Company : Absolute Aromas
Absolute Aromas Ltd
4 Riverwey, Newman Lane
Alton, Hampshire
GU34 2QL
Telephone Number : +44 (0) 1420 540400
Email Address : Relax@absolute-aromas.com
Emergency Tel No : +44 (0) 1420 540400

2. HAZARDS IDENTIFICATION

General : When undiluted and not properly handled, there is a possibility of skin and eye irritation. Avoid excess inhalation.
Hazard Symbols : Xn,N
Risk Codes : R38,R40,R41,R43,R51/53,R65,R68
HydroCarbons : 25%
Environment : Keep away from drains, surface and ground water and soil to avoid possible contamination.

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3. COMPOSITION AND INFORMATION ON INGREDIENTS

Description	Citronella oil, Ceylon type
USCAS Number	8000-29-1
CAS Number	89998-15-2
EINECS	289-753-6

Hazardous substances in complex natural material

18.0000%	Geraniol CAS No: 106-24-1; EINECS: 203-377-1 Xi R38,R41,R43
15.0000%	Citronellal CAS No: 106-23-0; EINECS: 203-376-6 Xi,N R38,R43,R51/53
10.0000%	d-Limonene (p-Mentha-1,8-diene) CAS No: 5989-27-5; EINECS: 227-813-5 Xi,N R10,R38,R43,R50/53,R65
10.0000%	Methyl isoeugenol CAS No: 93-16-3; EINECS: 202-224-6
9.0000%	Citronellol (d,l-Citronellol) CAS No: 106-22-9; EINECS: 203-375-0 Xi,N R38,R43,R51/53
5.0000%	Borneol CAS No: 507-70-0; EINECS: 208-080-0 F R11
2.0000%	Geranyl acetate CAS No: 105-87-3; EINECS: 203-341-5 N R51/53
1.0000%	Linalool CAS No: 78-70-6; EINECS: 201-134-4 Xi R38
0.4500%	Geranial CAS No: 141-27-5; EINECS: 205-476-5 Xi R38,R43

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0.1500% Neral
CAS No: 106-26-3; EINECS: 203-379-2
Xi R38,R43

The product contains the following sensitising ingredients classified as R43 in concentration of 0.1% to less than 1.0%.

Geranial
CAS No: 141-27-5; EINECS: 205-476-5

Neral
CAS No: 106-26-3; EINECS: 203-379-2

4. FIRST AID MEASURES

- Inhalation : Remove from the exposure area to fresh air. Contact a doctor if necessary.
- Ingestion : Wash mouth with plenty of water and obtain medical advice immediately.
- Skin Contact : Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.
- Eye Contact : Flush with plenty of water and seek medical advice if necessary.

5. FIRE-FIGHTING MEASURES

- Extinguishing Media : Carbon dioxide, foam or dry powder
DO NOT USE A DIRECT WATER JET.
In case of overheating, cool containers to avoid a pressure increase.
- Combustion Products : Carbon dioxide and unidentified organic compounds.
- Special Protective Equipment for Fire Fighters Only : Wear protective clothing and avoid inhalation of vapours.

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6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition.
Ensure proper ventilation.
Avoid inhalation, skin and eye contact.
Soak up spillage with sand or other inert absorbant material such as earth or vermiculite; transfer used material to a suitable waste container and dispose in accordance with regulations.

7. HANDLING AND STORAGE

Handling Procedures : Maintain good occupational and personal hygiene.
Avoid inhalation and contact with skin and eyes.

Storage Conditions : Store in tightly sealed original containers away from ignition sources and in a cool place.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Controls : Maintain adequate ventilation.

Personal Protection :

- Respiratory Protection - Not generally required. (Use inhalation protection in poorly ventilated areas)
- Hand Protection - Wear chemically resistant disposable gloves.
- Eye Protection - Wear safety goggles.
- Skin Protection - Wear overalls. Always wash routinely before breaks, meals and at the end of the work period.

9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point (°C) :

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10. STABILITY AND REACTIVITY

Conditions to avoid : Extreme temperatures
Materials to avoid : Highly reactive chemicals which may produce unknown reaction products and so cause additional hazards.
Hazardous decomposition products : Not determined

11. TOXICOLOGY INFORMATION

Not available for a complex mixture of different substances.

12. ECOLOGICAL INFORMATION

Not available; avoid soil, surface water and water-bearing stratum contamination.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with the law and local regulations. Treat as trade effluent.

14. TRANSPORT INFORMATION

UN Number : 3082
Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
: (CITRONELLA OIL, CEYLON TYPE)
Class : 9
Packing Group : III
Tunnel Code (E)

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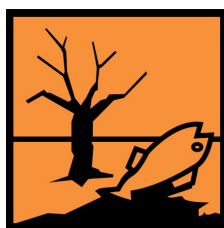
15. REGULATORY INFORMATION

Directive 2001/45/EC (classification & labelling)

Hazard Symbols :



Xn: Harmful



N: Dangerous for the Environment

Risk Codes	:	R38	Irritating to skin
		R40	Limited evidence of a carcinogenic effect
		R41	Risk of serious damage to eyes
		R43	May cause sensitisation by skin contact
		R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
		R65	Harmful: may cause lung damage if swallowed
		R68	Possible risk of irreversible effects
Safety Phrases	:	S24	Avoid contact with skin
		S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
		S36/37	Wear suitable protective clothing and gloves
		S39	Wear eye/face protection
		S61	Avoid release to the environment. Refer to special instructions/safety data sheet
		S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

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Contains Citral, Citronellol, Geraniol, Limonene and Linalool which may produce an allergic reaction

16. OTHER INFORMATION

Total fractional values:

Text of the risk phrases listed in section 3 above:

R10	Flammable
R11	Highly flammable
R38	Irritating to skin
R41	Risk of serious damage to eyes
R43	May cause sensitisation by skin contact
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed

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IFRA Conformity Certificate

Compound Name : CITRONELLA OIL{B106}

Code Number : NAT-11569

We certify that the above compound is in compliance with the standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA-46th amendment, published June 2011), provided it is used at a maximum concentration level of:

IFRA category (*)	Maximum level of use (%) (w/w)
1 (**)	N/A (**)
2	N/A
3A	N/A
3B	N/A
3C	N/A
3D	N/A
4A	N/A
4B	N/A
4C	N/A
4D	N/A
5	N/A
6 (**)	N/A (**)
7A	N/A
7B	N/A
8A	N/A
8B	N/A
9A	N/A
9B	N/A
9C	N/A
10A	N/A
10B	N/A
11A	N/A
11B	N/A

(*) See annex for definition of IFRA categories

(**) IFRA would recommend that any material used to impart perfume or flavour in products intended for human ingestion should consist of ingredients that are in compliance with appropriate regulations for foods and food flavourings

For other kinds of application or use at higher concentrations, a new safety evaluation may be needed; please contact Absolute Aromas

The IFRA Standards regarding restrictions are based on safety assessments by the Panel of Experts of the RESEARCH INSTITUTE FOR FRAGRANCE MATERIALS (RIFM) and are enforced by the IFRA Scientific Committee.

Evaluation of individual Fragrance ingredients is made according to the safety standards contained in the relevant section of the IFRA Code of Practice.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing this fragrance) by further testing if need be.

The information contained herein is true and accurate to the best of our knowledge. All information is valid until revisions are issued. It is your responsibility to ensure that the usage of the fragrance ingredients and the levels of such usage are permitted at all times according to the relevant laws and regulations

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ANNEX: Definition of IFRA categories

Finished Product Types	IFRA category
Lip products of all types (solid and liquid lipsticks, balms, clear or coloured etc.) Toys Lip Wax, Body Wax	1 (**)
Deodorant and Antiperspirant products of all types (spray, stick, roll-on, under-arm and body, etc.), Fragranced Bracelets	2
Hydroalcoholic Products applied to recently shaved skin - EdT	3A
Hydroalcoholic Products applied to recently shaved skin- Fine fragrance	3B
Eye Products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care Men's Facial Creams, Balms, Baby Creams, Lotions, Oils Body Paint for Children	3C
Tampons	3D
Hydroalcoholic Products applied to unshaved skin - EdT Ingredients of Perfume Kits, Scent Strips for Hydroalcoholic Products Scent Pads, Foil Packs	4A
Hydroalcoholic Products applied to unshaved skin - Fine fragrance	4B
Hair styling aids, hair sprays of all types (pumps, aerosol sprays etc.), Hair Deodorant Body Creams, Oils, Lotions, Fragrancing Creams of all types (except baby creams, lotions and oils) Fragrance Compounds for Cosmetic Kits, Foot Care Products Body Paint for Adults	4C
Fragrancing cream	4D
Women's Facial Creams/Facial Make-up, Hand Cream, Facial Masks Hand Sanitisers, Wipes or Refreshing Tissues for Face, Neck, Hands, Body Baby Powder and Talc Hair Permanent and Other Hair Chemical Treatments (e.g. relaxers) but not hair dyes Dry Shampoo or Waterless Shampoo	5
Mouthwash, including Breath Sprays, Toothpaste	6 (**)
Intimate Wipes, Baby Wipes	7A
Insect Repellent (intended to be applied to the skin)	7B
Make-up Removers of all types (not including face cleansers) Hair Styling Aids Non-Spray of all types (mousse, gels, leave-in conditioners, etc.) Nail Care, Powders and talcs (not including baby powders and talcs)	8A
Hair Dyes	8B
Shampoos of all types (including baby shampoos), Conditioner (Rinse-Off) Face Cleansers of all types (washes, gels, scrubs, etc.), Liquid Soap, Bar Soap (Toilet Soap), Depilatory, Shaving Creams of all types (stick, gels, foams, etc.) Body Washes of all types (including baby washes) and Shower Gels of all types Bath Gels, Foams, Mousses, Salts, Oils and other products added to bathwater	9A
Feminine Hygiene – Pads and Liners, Toilet Paper Wheat bags	9B
Aerosols (including air freshener sprays but not deodorant/antiperspirants, hair styling aids spray and animal sprays) Facial Tissues, Napkins, Paper Towels	9C
Handwash Laundry Detergents of all types including concentrates Machine Wash Laundry Detergents (liquids, powders, tablets etc.) including laundry bleaches and concentrates Fabric Softeners of all types including fabric softener sheets, Hand Dishwashing Detergent including concentrates Hard Surface Cleaners of all types (bathroom and kitchen cleansers, furniture polish etc.) Other Household Cleaning Products (fabric cleaners, soft surface cleaners, carpet cleaners etc.) Dry Cleaning Kits, Shampoo for pets	10A
Diapers, Toilet Seat Wipes	10B
All non-skin contact including: Air Fresheners and Fragrancing of all types (concentrated aerosol air fresheners, plug-ins, solid substrate, membrane delivery, ambient, electrical...) excluding aerosol products, Liquid refills for air fresheners (cartridge systems), Scent delivery system using a dry air technology that releases a fragrance without sprays, aerosols or heated oils (technology of nebulization), Air delivery systems Candles, Joss Sticks, Incense, Air freshening crystals, Fragranced lamp ring, Scent pack, Machine Only Laundry Detergent (e.g. liquid tabs), Toilet Blocks, Insecticides (mosquito coil, paper, electrical, for clothing etc.) excluding aerosols Fuels, Paints, Floor wax, Plastic articles (excluding toys)	11A
All incidental skin contact including: Pot pourri, powders, fragrancing sachets, incense, Reed diffusers Liquid refills for airfresheners (non-cartridge systems) Odoured Distilled Water (that can be added to steam irons) Deodorizers/Maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders) Treated Textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics, tights with moisturizers) Infused socks, Scratch and sniff (sampling technology) Machine Dishwash Detergent and Deodorizers Shoe Polishes, Cat litter, Animal Sprays (all types)	11B

(**) This IFRA certificate does not include a GRAS-FEMA conformity check

Allergen Analysis

Compound Name : CITRONELLA OIL{B106}

Code Number : NAT-11569

ingredient	CAS No.	Concentration present as a percentage (%) or 'A' for absent in		
		Added as such	From natural & other sources	Total
alpha-iso-Methylionone	127-51-5	A	A	A
Amyl Cinnamal	122-40-7	A	A	A
Amylcinnamyl Alcohol	101-85-9	A	A	A
Anise Alcohol	105-13-5	A	A	A
Benzyl Alcohol	100-51-6	A	A	A
Benzyl Benzoate	120-51-4	A	A	A
Benzyl Cinnamate	103-41-3	A	A	A
Benzyl Salicylate	118-58-1	A	A	A
Butylphenyl Methylpropional (Lilial)	80-54-6	A	A	A
Cinnamal	104-55-2	A	A	A
Cinnamyl Alcohol	104-54-1	A	A	A
Citral	106-26-3	A	0.60	0.60
	141-27-5			
	5392-40-5			
Citronellol	106-22-9	A	6.50	6.50
	1117-61-9			
	141-25-3			
	6812-78-8			
	68916-43-8			
7540-51-4				
Coumarin	91-64-5	A	A	A
Eugenol	97-53-0	A	A	A
Evernia Furfuraceae (Tree Moss) Extract	90028-67-4	A	A	A
Evernia Prunastri (Oak Moss) Extract	90028-68-5	A	A	A
Farnesol	4602-84-0	A	A	A
Geraniol	106-24-1	A	17.50	17.50
Hexyl Cinnamal	101-86-0	A	A	A
Hydroxycitronellal	107-75-5	A	A	A
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyral)	31906-04-4	A	A	A
Isoeugenol	97-54-1	A	A	A
Limonene	138-86-3	A	10.00	10.00
	5989-27-5			
	5989-54-8			
Linalool	126-91-0	A	1.00	1.00
	126-90-9			
	78-70-6			
Methyl 2-Octynoate	111-12-6	A	A	A

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Ingredient Declaration for label

Compound Name : CITRONELLA OIL{B106}

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Suggested labelling for foodstuffs

Flavour labelling

Contains:

Legal Composition

List of flavouring categories and other ingredients in descending order of weight

Any substances which are restricted in food are listed below

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Food Allergen Declaration

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We have carefully reviewed the ingredients in this product.

Allergen Source	Present
Celery and products thereof	No
Crustaceans and products thereof	No
Eggs and products thereof	No
Fish and products thereof	No
Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) and products thereof	No
Lupin and products thereof	No
Milk and products thereof (including lactose)	No
Molluscs and products thereof	No
Mustard and products thereof	No
Nuts i.e. Almond, Hazelnut, Walnut, Cashew, Pecan nut, Brazil nut, Pistachio nut, Macadamia nut and Queensland nut and products thereof	No
Peanuts and products thereof	No
Sesame seeds and products thereof	No
Soybeans and products thereof	No
Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre expressed as SO ₂	No

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Vegetarian Declaration

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Vegan	Y	No ingredients of animal origin or animal derivatives, including additives and processing aids
Vegetarian	Y	No ingredients of animal origin, including additives and processing aids. No egg or dairy; bee products are allowed
Ovo-lacto Vegetarian	Y	May include egg, dairy and bee products. No other ingredients of animal origin or animal derivatives, including additives and processing aids are allowed

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GMO Declaration

Compound Name : CITRONELLA OIL{B106}

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We have carefully reviewed the ingredients in this product for their potential genetically modified (GM) origin. The list includes ingredients which may be produced from other GM ingredients

Material	Present	Of GMO Origin
Chicory	No	-
Cotton	No	-
Maize	No	-
Potato	No	-
Rape	No	-
Soya	No	-
Sugar Beet	No	-
Tomato	No	-
Wheat	No	-

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