



CERTIFICATE OF ANALYSIS

Product: GRAPEFRUIT WHITE  
Batch Number: 4376801  
Best Before End: OCTOBER 2022

Specific Gravity 15°C	: 0,8520
Refractive Index 20°C	: 1,4730
Optical rotation 15°C	: 95,00
<i>Aldehydes</i>	: 1,63%



## Allergen Declaration Grapefruit White

List of 26 "allergens"	CAS Nr.	% OR ppm
2-METHYL-3-(4-(1,1-DIMETHYL ETHYL PHENYL) PROPANAL (LINALIL)	80-54-6	NO
ALPHA METHYL IONONE	127-51-5	NO
AMYL CINNAMIC ALCOHOL	101-85-9	NO
AMYL CINNAMIC ALDEHYDE	122-40-7	NO
ANISYL ALCOHOL	105-13-5	NO
BENZYL ALCOHOL	100-51-6	NO
BENZYL BENZOATE	120-51-4	NO
BENZYL CINNAMATE	103-41-3	NO
BENZYL SALICYLATE	109-85-9	NO
CINNAMIC ALCOHOL	104-54-1	NO
CINNAMIC ALDEHYDE	104-55-2	NO
CITRAL (Neral+Geranial)	5392-40-5	around 0,50 %
CITRONELLOL	106-22-9	NO
COUMARIN	91-64-5	NO
EUGENOL	97-53-0	NO
FARNESOL	46-84-0	NO
GERANIOL	106-24-1	traces
HEXYLCINNAMIC ALDEHYDE	101-86-0	NO
HYDROXYCITRONELLAL	107-75-5	NO
HYDROXYMETHYLPENTTYLCYCLOHEXENE CARBOXALDEHYDE (LIRAL)	31906-04-4	NO
ISOEUGENOL	97-54-1	NO
LIMONENE	5989-27-5	around 96%
LINALOOL	78-70-6	around 0,15%
METHYL HEPTINE CARBONATE	111-12-6	NO
OAKMOSS	90028-68-5	NO
TREEMOSS	90028-67-4	NO



6th March 2019

**STATEMENT**

We confirm that the product below is GMO free:

- *Grapefruit White*



**FRAGRANCE IFRA 49 INFORMATION SHEET**

**PRODUCT NAME:** Grapefruit White

A. This material complies with the regulation (EC) no.1223/2009 on cosmetic products?      Yes **x**                      No  
     - Annex II (prohibited) compounds: not added  
     - Annex III (restricted) compounds: see lists below  
     - Annex IV (colorants), V (preservatives), VI (UV filters) compounds: not added

B. This material complies with the most current IFRA Guidelines? (IFRA 49)                      Yes **x**                      No  
 According to the IFRA 48<sup>th</sup> amendment, please complete the tables below:

**Please note that materials specifically addressed in the IFRA 49<sup>th</sup> amendment or in the updated Annex 1 tables are bolded:**

**EU Fragrance Allergens (acc. To EC 1223/2009 annex III)**

Ingredient Name	% Direct (added as such)	% from Naturals	% Impurities (from synthetics)	% Total
Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene (Trimofix O, Fixamber) (144020-22-4)(28371-99-5)				
alpha-Amyl Cinnamic Aldehyde (122-40-7)				
alpha-Amyl Cinnamic Alcohol (101-85-9)				
Anisyl Alcohol (105-13-5)				
Benzyl Alcohol 100-51-6)				
Benzyl Benzoate (120-51-4)				
Benzyl Cinnamate (103-41-3)				
Benzyl Salicylate (118-58-1)				
3-(m-tert-Butylphenyl)-2-methylpropionaldehyde (m-BMHCA) (62518-65-4)				
Cinnamic Alcohol (104-54-1)				
Cinnamic Aldehyde (104-55-2)				
Citral (mixture of neral + geranial) (5392-40-5)				0.30 – 0.50
Citronellol (106-22-9)				
Coumarin (91-64-5)				
6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone (DPMI) (33704-61-9)				
Eugenol (97-53-0)				
Farnesol (4602-84-0)				
gamma-Methyl Ionone (127-51-5)				
Geraniol (106-24-1)				Trace – 0.02
Hexyl Cinnamic Aldehyde (101-86-0)				
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (31906-04-4)				
Hydroxycitronellal (107-75-5)				
Iso Eugenol (97-54-1)				
Butylphenyl Methylpropional (80-54-6)				
Limonene (5989-27-5)/(138-86-3)/(5989-54-8)				95.5 – 96.5
Linalool (78-70-6)				0.04 – 0.10
Methyl Heptine Carbonate (111-12-6)				
Oakmoss (68917-10-2/90028-68-5)				
Treemoss (68648-41-9 90028-67-4)				

**IFRA 49<sup>th</sup> Amendment restricted substances (other than allergens)**

Name	CAS	% Direct (added as such)	% from Naturals	% Impurities (from synthetics)	% Total
Allyl esters	N/A				
AHMI (Phantolide)	15323-35-0				
Allyl Phenoxyacetate	7493-74-5				
Benzaldehyde	100-52-7				
Benzene	71-43-2				
Benzyl cyanide	140-29-4				
Acetic acid, anhydride, reaction products with 1.5.10-trimethyl- 1.5.9-cyclododecatiene	144020-22-4 / 28371-99-5				
Alpha Bisabolol	515-69-5				
Alpha Butyl cinnamaldehyde	7492-44-6				
p-tert-Butyldihydrocinnamaldehyde	18127-01-0				
3-(m-tert-Butylphenyl)-2-methylpropionaldehyde (m-BMHCA)	62518-65-4				
Carvone	99-49-0				
Cedrene	99-49-0 / 2244-16-8				
Cinnamic aldehyde dimethyl acetal	4364-06-1				
Cinnamyl nitrile	4360-47-8				
Citronellal	106-23-0 / 5949-05-3				trace
Cuminaldehyde	122-03-02				
Cyclamen alcohol	4756-19-8				
Cyclamen aldehyde	103-95-7				
Cyclohexanemethanol, 2,4-dimethyl-	68480-15-9				
Cyclopentadecanolide	106-02-05				
Dibenzyl ether	103-50-4				
Dihydrocoumarin	119-84-6				
6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone	33704-61-9				
Dimethylcyclohex-3-ene-1-carboxaldehyde (mixed isomers)	68737-61-1, 68039-49-6, 68039-48-5, 27939-60-2, 67801-65-4				
1-(5,5-Dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one	56973-85-4				
4,8-Dimethyl-4,9-decadienal	71077-31-1				
5,9-Dimethyl-4,8-decadienal	762-26-5				
3,7-Dimethyl-2,6-nonadien-1-al	41448-29-7				
3,7-Dimethyl-3,6-octadienal	55722-59-3 / 1754-00-3 72203-98-6 / 72203-97-5				
2,2-Dimethyl-3-(3-tolyl)propan-1-ol	103694-68-4				
3,3-Dimethyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol	107898-54-4				
Estragole	140-67-0 / 1407-27-8				
2-Ethoxy-4-methylphenol	2563-07-7				
p-Ethylbenzaldehyde	4748-78-1				
Farnesal	19317-11-4				
Furfural	98-01-1				
2-Heptylidene cyclopentan-1-one	39189-74-7				
trans-2-Hexenal	6728-26-3				
Hexyl salicylate	6259-76-3				
α-Hexylidene cyclopentanone	17373-89-6				
4-Hydroxy-2,5-dimethyl-3(2H)-furanone	3658-77-3				
4-(4-Hydroxyphenyl)butan-2-one	5471-51-2				
Isobutyl N-methylantranilate	65505-24-0				
p-Isobutyl-α-methyl hydrocinnamaldehyde	6658-48-6				
Isocyclocitral	1335-66-6 / 1423-46-7				
Isocyclogeraniol	68527-77-5				

Isophorone	78-59-1				
p-Isopropylbenzyl alcohol	536-60-7				
cis, trans-4-(Isopropyl) cyclohexanemethanol	5502-75-0 / 13828-37-0				
4-(Isopropyl)- $\beta$ -methylcyclohexanethanol	67634-03-1				
Longifolene	475-20-7 / 16846-09-6				
Menthadiene-7-methyl formate	68683-20-5				
p-Methoxybenzaldehyde	123-11-5				
o-Methoxycinnamaldehyde	1504-74-1				
7-Methoxycoumarin	531-59-9				
Methoxy dicyclopentadiene carboxaldehyde	86803-90-9				
4-Methoxy- $\alpha$ -methylbenzenepropanal	5462-06-6				
2-Methoxy-4-methylphenol	93-51-6				
2-Methoxy-4-propylphenol	2785-87-7				
$\alpha$ -Methyl-1,3-benzodioxole-5-propionaldehyde (MMDHCA)	1205-17-0				
$\alpha$ -Methyl cinnamic aldehyde	101-39-3				
Methyl eugenol	93-15-2				
Methyl N-formylanthranilate	41270-80-8				
6-Methyl-3,5-heptadien-2-one	1604-28-0				
Methyl ionones, mixed isomers	1335-46-2 / 127-42-4 127-43-5 / 7779-30-8				
Methyl N-methylanthranilate	85-91-6				
Methyl $\beta$ -naphthyl ketone	93-08-3				
Methyl octine carbonate	111-80-8				
3-Methyl-2-(pentyloxy)cyclopent-2-en-1-one	68922-13-4				
p-Methyltetrahydroquinoline	91-61-2				
Musk ketone	81-14-1				
2-Nonyl-1-al dimethyl acetal	13257-44-8				
Nootkatone	4674-50-4				trace
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8-tetramethyl-2-naphthalenyl) ethanone (OTNE)	54464-57-2 / 54464-59-4 68155-66-8 / 68155-67-9				
1-Octen-3-yl acetate	2442-10-6				
1-(2,4,4,5,5-Pentamethyl-1-cyclopenten-1-yl) ethan-1-one	13144-88-2				
Perilla aldehyde	2111-75-3				
Phenylacetaldehyd	122-78-1				
3-Phenylbutanal	16251-77-7				
4-Phenyl-3-buten-2-ol	17488-65-2				
2-Phenylpropionaldehyde	93-53-8 / 1340-11-0				
Pinacea derivatives	N/A				
Propenylguaethol	94-86-0 / 63477-41-8				
3-Propylidenephthalide	17369-59-4				
Pseudoionone	141-10-6				
Pseudo methylionones	26651-96-7 / 72968-25-3				
Rose Ketones	N/A				
Safrole, Isosafrole and Dihydrosafrole	94-59-7 / 120-58-1				
Sclareol	515-03-7				
1,2,3,4-Tetrahydro-4-methylquinoline	19343-78-3				
$\alpha$ ,2,2,3-Tetramethylcyclopent-3-ene-1-butyraldehyde	65114-03-6				
Thujone	546-80-5 / 471-15-8				
o,m,p-Tolualdehydes and their mixtures	529-20-4 / 620-23-5				
Toluene	108-88-3				
p-Tolyl alcohol	589-18-4				
2,6,6-Trimethylcyclohex-1,3-dienyl methanal	116-26-7				
5-(2,2,3-Trimethyl-3-cyclopentenyl)-3-methylpentan-2-ol	65113-99-7				
2,6,10-Trimethylundeca-5,9-dien-1-ol	24048-14-4 / 185019-19-6				

**IFRA 49<sup>th</sup> Amendment restricted naturals**

Name	CAS	%	Name	CAS	%
Angelica root oil	8015-64-3		Opoponax	8021-36-1 9000-78-6	
Bergamot oil expressed	8007-75-8		Peru balsam ext. and distillates	8007-00-9	
Birch wood oil, distillates	8001-88-5 84012-15-7 85940-29-0 68917-50-0		Petitgrain Mandarin oil	8014-17-3	
Bitter orange peel oil expressed	68916-04-1 72968-50-4		Rue oil	8014-29-7 84929-47-5	
Cade oil, distillates	8013-10-3 90046-02-9		Savin oil, <i>Juniperus phoenicea</i> L.	8024-00-8	
Citrus Oils and other furocoumarines containing essential oils	Not available				
Cumin oil	8014-13-9		Styrax	8046-19-3 8024-01-9	
Grapefruit oil expressed	8016-20-4 90045-43-5		Tagetes oil and absolutes	91722-29-1 8016-84-0	
Jasmine Grandiflorum	8022-96-6 8024-43-9 90045-94-6 84776-64-7		Tea leaf absolute	84650-60-2	
Jasmin Sambac	91770-14-8		Verbena absolute	8024-12-2	
Lemon oil cold pressed	8008-56-8 84929-31-7		Vetiver oil acetylated (Vetiveryl Acetate)	117-98-6 84082-84-8 72230-87-6 84082-84-8	
Lime oil expressed	8008-26-2 90063-52-8		Ylang ylang	8006-81-3 68606-83-7 83863-30-3	
Melissa oil (geniune Melissa officinalis L.)	8014-71-9 84082-61-1				

## **IFRA 49<sup>th</sup> Amendment prohibited materials**

To the best of our knowledge, this product does not contain any material prohibited or not recommended by IFRA up to and including the 49<sup>th</sup> amendment

### **List of materials either prohibited or not “recommended for use” up to and including the 49<sup>th</sup> amendment**

Acetyl ethyl tetramethyl tetralin (AETT, Versalide)	88-29-9	2,4-Heptadienal	5190-85-0
Acetyl isovaleryl (5-Methyl-2,3-hexanedione)	13706-86-0	trans, trans, 2,4-Heptadienal	4313-03-5
Allantroot oil (Elecampane oil)	97676-35-2	trans-2-Heptenal	18829-55-5
Allyl heptin carbonate	73157-43-4	2,4 Hexadienal	80466-34-8
Allylisothiocyanate	57-06-7	trans, trans, 2,4 Hexadienal	142-83-6
Amyl cyclopentenone	25564-22-1	trans, cis, 2,4 Hexadienal	53398-76-8
		2,4-Hexadien-1-ol	111-28-4
Anisylidene acetone (4-(4-methoxyphenyl)-3-buten-2-one)	943-88-4	Hexahydrocoumarin	700-82-3
cis-beta Asarone ((Z)-2,4,5-Trimethoxypropen-1-yl benzene)	5273-86-9	trans-2-Hexenal diethyl acetal	67746-30-9
trans Asarone ((E)-1,2,4-trimethoxy-5-prop-1-enylbenzene)	2883-98-9	trans-2-Hexenal dimethyl acetal	18318-83-7
Benzene (directly added, not indirectly added from naturals or as synthetic impurity)	71-43-2	Hydroabietyl alcohol (Abitol)	13393-93-6
Benzyl cyanide (directly added, not indirectly added from naturals)	140-29-4	Hydroabietyl alcohol (Abitol)	1333-89-7
Benzylidene acetone (4-Phenyl-3-buten-2-one)	122-57-6	Hydroquinone monoethylether (4-Ethoxy phenol)	622-62-8
Birch wood (bark) pyrolysates (oils), crudes (not rectified or distilled)	8001-88-5	Hydroquinone monomethylether (4-Methoxy phenol)	150-76-5
Birch wood (bark) pyrolysates (oils), crudes (not rectified or distilled)	85940-29-0	Isophorone	78-59-1
Birch wood (bark) pyrolysates (oils), crudes(not rectified or distilled)	84012-15-7	6-Isopropyl-2-decalol	34131-99-2
Boldo leaf oil	8022-81-9	Massoia bark oil	85085-26-3
Boldo leaf oil	84649-96-7	Massoia lactone	54814-64-1
3-Bromo-1,7,7-trimethylbicyclo[2.2.1]heptane-2-one	76-29-9	7-Methoxycoumarin (directly added, not indirectly added from naturals)	531-59-9
Bromstryene	103-64-0	alpha-Methyl anisylidene acetone (1-(4-Methoxyphenyl)-1-penten-3-one)	104-27-8
p-tert-Butylphenol	98-54-4	6-Methyl coumarin (Toncarine)	92-48-8
Cade oils, crude (not rectified or distilled)	8013-10-3	7-Methyl coumarin	2445-83-2
Cade oils, crude(not rectified or distilled)	90046-02-9	Methyl crotonate	623-43-8
Carvone oxide	33204-74-9	4-Methyl-7-ethoxycoumarin (Maraniol)	87-05-8
Chenopodium oil	8006-99-3	Methyl methacrylate	80-62-6
Chenopodium oil	89997-47-7	3-Methyl-2 (3)-nonenenitrile	53153-66-5
Cinnamylidene acetone	4173-44-8	Moskene	116-66-5
Colophony	8050-09-7	Musk ambrette	83-66-9
Costus root oil, absolute and concrete	8023-88-9	Musk tibetine	145-39-1
Costus root oil, absolute and concrete	90106-55-1	Musk xylol	81-15-2
Cyclamen alcohol (3-(4-Isopropylphenyl)-2-methylpropanol)	4756-19-8	Nitrobenzene	98-95-3
2,4-Decadienal	2363-88-4	2,4-Nonadienal	6750-03-4
trans, trans, 2,4-Decadienal	25152-84-5	trans, trans, 2,4-Nonadienal	5910-87-2
1,3-Dibromo-2-methoxy-4-methyl-5-nitrobenzene (Musk KS)	62265-99-0	2,4-Octadienal, trans, trans	30361-28-5
1,3-Dibromo-4-methoxy-2-methyl-5-nitrobenzene (Musk alpha)	No CAS	2,4-Pentadienal	764-40-9
2,2-Dichloro-1-methylcyclopropylbenzene	3591-42-2	Pentylidene cyclohexanone	25677-40-1
Diethyl maleate	141-05-9	Peru balsam (exudation from Myroxylon pereirae (Royle) Klotzsch) (not extract or rectified or distilled)	8007-00-9
Dihydroabietyl alcohol	26266-77-3	Phenyl acetone (Methyl benzyl ketone)	103-79-7
		Phenyl benzoate	93-99-2
2,4-Dihydroxy-3-methyl-benzaldehyde	6248-20-0	Pseudoionone (2,6-Dimethylundeca-2,6,8-trien-1-one)	141-10-6
4,6-Dimethyl-8-t-butyl coumarin (Butolia)	17874-34-9	Pseudomethylionones	26651-96-7
Dimethyl citraconate (cis-Methylbutenedioic acid, dimethyl ester)	617-54-9	Pseudomethylionones	72968-25-3
3,7-Dimethyl-2-octen-1-ol (6,7-Dihydrogeraniol)	40607-48-5	Pseudomethylionones	1117-41-5
Diphenyl amine	122-39-4	Quinoline	91-22-5
2,4-Dodecadienal, trans, trans	21662-16-	Safrole, , (directly added, not indirectly added from naturals)	94-59-7
2,4-Dodecadien-1-ol, (2E, 4E)	18485-38-6		
Esters of 2-nonynoic acid, except methyl octine carbonate	Various	Isosafrole (directly added, not indirectly added from naturals)	120-58-1
		Dihydrosafrole (directly added, not indirectly added from naturals)	94-58-6
Esters of 2-octynoic acid, except methyl and allyl heptene carbonate	140-88-5	Santolina oil	84961-58-0
Ethyl acrylate	110-80-5	Savin Oil (Juniperus savina L.)	8024-00-8
Ethylene glycol monoethyl ether	111-15-9	Styrax gums, crude (not extract or rectified or distilled)	8024-01-9
Ethylene glycol monoethyl ether acetate	109-86-4	Styrax gums, crude (not extract or rectified or distilled)	8046-19-3
Ethylene glycol monomethyl ether	110-49-6	Styrax gums, crude (not extract or rectified or distilled)	94891-27-7
Ethylene glycol monomethyl ether acetate	68916-52-9	Styrax gums, crude (not extract or rectified or distilled)	94891-28-8
Fig leaf absolute	90028-74-3	Toluene (directly added, not indirectly added from naturals or as synthetic impurity)	108-88-3
Fig leaf absolute			
	98-00-0	2,4-Undecadienal	13162-46-4
Furfuryl alcohol	623-15-4	trans, trans, 2,4-Undecadienal	30361-29-6
Furfurylideneacetone	5146-66-7, 5585-39-7, 31983-27-4	Verbena oil	8024-12-2
Geranyl nitrile		Verbena oil	85116-63-



**SAFETY DATA SHEET**

Safety data sheet according to 1907/2006/EC, Article 31

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING****1.1 Identification of the substance or preparation:**

Trade name: Grapefruit White

**1.2 Uses of the substance:** Flavours & Fragrances**1.3 Company / undertaking identification :**

MADAR Corporation Limited

19-20 Sandheath Industrial Estate, Fordingbridge, Hampshire SP6 1PA

Phone 00 44 (0)1425 655555

Email: sales@madarcorporation.co.uk

**1.4 Emergency telephone number:**

For Hazardous Materials Incident, Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

+(44) 870-8200418 CHEMTREC UK

+1 703-741-5970 (anywhere in the world; collect call accepted)

For emergency calls only. Non emergency calls cannot be serviced at these numbers

**2. HAZARDS IDENTIFICATIONS****2.1 Classification of the substance:** Essential oil**2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)**

<b>Hazard classes and Hazard categories</b>	<b>Hazard Statements</b>
Flam. Liq. 3	H226
Skin Irrit. 2	H315
Skin Sens. 1	H317
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

**2.1.2 Classification according to 67/548/EEC and 1999/45/EC**

Xn, Xi, N

R10/38/43/51/53/65

**2.1.3 Additional information:**

The product has to be labelled according to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

The classification is according to the latest edition of EU-lists, and added to by company and literature data.

Full text of R-, H- and EUH-phrases: see section 16

**2.2 Label Elements****2.2.1 Labelling according Regulation (EC) No. 1272/2008 (CLP/GHS)**

**Hazard component for labelling:** Limonene

**Hazard Pictograms**

GHS02

GHS07

GHS08

GHS09

**Signal word:**

Danger

**Hazard statements:**

H226: Flammable liquid and vapour

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H304: May be fatal if swallowed and enters airways

H411: Toxic to aquatic life with long lasting effects

**Precautionary Statements:**

P210: Keep away from heat / sparks/ open flames/ hot surfaces/ no smoking

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

P261: Avoid breathing dust/fumr/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 environment

P301+P310: If swallowed: immediately call a poison center or doctor/physician

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

P331: Do not induce vomiting

P405: Store locked up

P501: Dispose of contents / container in accordance with local regulations.

P391: Collect spillage

### 3.COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Description of the mixture: Mixture mainly consisting of the following components:

Cas	Einecs	Range	Name	Classification according to 67/548/EEC
5989-27-5	227-813-5	60-98%	Limonene	R10-38-43-50/53
Cas	Einecs	Range	Name	Classification according to EC 1272/2008 (CLP)
5989-27-5	227-813-5	60-98%	Limonene	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chr. 1, H400 Aquatic Chr. 1, H410

Cas	Einecs	Range	Name	Classification according to 67/548/EEC
80-56-8	201-291-9	0-1%	Alfa Pinene	R10-43-50/53-65
Cas	Einecs	Range	Name	Classification according to EC 1272/2008 (CLP)
80-56-8	201-291-9	0-1%	Alfa Pinene	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chr. 1, H400 Aquatic Chr. 1, H410

Cas	Einecs	Range	Name	Classification according to 67/548/EEC
5392-40-5	226-394-6	0-3%	Citral	R38-43
Cas	Einecs	Range	Name	Classification according to EC 1272/2008 (CLP)
5392-40-5	226-394-6	0-3%	Citral	Skin Irrit. 2, H315 Skin Sens. 1, H317

Cas	Einecs	Range	Name	Classification according to 67/548/EEC
123-35-3	204-622-5	0-3%	Myrcene	R10-65
Cas	Einecs	Range	Name	Classification according to EC 1272/2008 (CLP)
123-35-3	204-622-5	0-3%	Myrcene	Flam. Liq. 3, H226 Asp. Tox. 1, H304

Cas	Einecs	Range	Name	Classification according to 67/548/EEC
3387-41-5	222-212-4	0-2%	Sabinen	R10-23/25-36/37/38-65
Cas	Einecs	Range	Name	Classification according to EC 1272/2008 (CLP)
3387-41-5	222-212-4	0-2%	Sabinen	Flam. Liq. 3, H226 Acute Tox. 3, H301 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Ser. Eye Damage/ Eye Irr. 2, H319 Acute Tox. 2, H330 Org. Tox. / Resp. Irr. 3, H335
Cas	Einecs	Range	Name	Classification according to 67/548/EEC
87-44-5	201-746-1	0-3%	Caryophyllene	R65
Cas	Einecs	Range	Name	Classification according to EC 1272/2008 (CLP)
87-44-5	201-746-1	0-3%	Caryophyllene	Asp. Haz. 1, H304
Cas	Einecs	Range	Name	Classification according to 67/548/EEC
106-23-0	203-376-6	0-1%	Citronellal	R38-43-52/53
Cas	Einecs	Range	Name	Classification according to EC 1272/2008 (CLP)
106-23-0	203-376-6	0-1%	Citronellal	Skin Irrit. 2, H315 Skin Sens. 1, H317 Haz. Acq. 2, H411
Cas	Einecs	Range	Name	Classification according to 67/548/EEC
112-31-2	203-957-4	0-6%	Decanal	R38-52/53
Cas	Einecs	Range	Name	Classification according to EC 1272/2008 (CLP)
112-31-2	203-957-4	0-6%	Decanal	Skin Irrit. 2, H315 Chr. Haz. 3, H412
Cas	Einecs	Range	Name	Classification according to 67/548/EEC
78-70-6	201-134-4	0-3%	Linalool	R38
Cas	Einecs	Range	Name	Classification according to EC 1272/2008 (CLP)
78-70-6	201-134-4	0-3%	Linalool	Skin Irrit. 2, H315
Cas	Einecs	Range	Name	Classification according to 67/548/EEC
124-13-0	204-683-8	0-2%	Octanal	R10-36/38-52/53

Cas	Einecs	Range	Name	Classification according to EC 1272/2008 (CLP)
124-13-0	204-683-8	0-2%	Octanal	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Ser. Eye Damage/ Eye Irr. 2, H319 Chr. Haz. 3, H412

  

Cas	Einecs	Range	Name	Classification according to 67/548/EEC
4674-50-4	225-124-4	0-3%	Nootkatone	Not classified

  

Cas	Einecs	Range	Name	Classification according to EC 1272/2008 (CLP)
4674-50-4	225-124-4	0-3%	Nootkatone	Not classified

#### 4. FIRST AID MEASURES

##### General information:

If health disorders happens, call for medical help immediately.  
Immediately remove any clothing soiled by the product.

**4.1 Inhalation:** Attend to fresh air. In case of complaints seek medical attention.

**4.2 Skin contact:** In case of contact with skin wash immediately with soap and water.

**4.3 Eye contact:** In case of contact with eyes rinse thoroughly with water.

**4.4 Swallowing:** If swallowed, do not induce vomiting: call for medical help immediately.

#### 5. FIRE-FIGHTING MEASURES

**5.1 Suitable extinguishing media:** CO<sub>2</sub>, alcoholresistant foam

**5.2 Unsuitable extinguishing media:** Water

**5.3 Special exposure hazards arising from the substance or preparation itself, combustion products or resulting gases:** Vapours may form explosive mixture with air.

**5.4 Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus and protective suits.

##### Additional information:

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipments and emergency procedures

**6.1.1 Personal precaution:** follow safety measures in Section 7 and 8. Use personal protective equipment.

**6.2 Environmental precautions:** Do not allow to enter canalisation/waterways/groundwater Inform respective authorities in case of see page into water course or sewage system.

**6.3 Clean up methods:** Soak up with absorbent, inert material (sand, universal binders) and dispose contaminated material as waste according to section 13.

Dispose of in accordance with federal, state and local environmental regulations.

**Reference to other sections:** Keep ignition source away, do not smoke and avoid flames.

## 7. HANDLING AND STORAGE

**7.1 Precautions for safe handling:** Use only in well ventilated area. Avoid contact with skin, eyes and clothing. NO SMOKING.

**7.2 Information on fire and explosion protection:** Keep away from possible sources of ignition. No smoking.

**7.2 Storage:** Store in well filled tight suitable containers; drums should only be considered as a means of transportation. Do not store with flammable or explosive materials and strong oxidizing agents.

Keep drums tightly closed. Store dark, dry and under cold temperatures.

Protect against warming / overheating. Recommended storage temperature: 8-12°C.

**7.3 Advice on general occupational hygiene:** Avoid excessive inhalation of concentrated vapours.

Follow good manufacturing practices for housekeeping and personal hygiene. No eating, drinking and smoking during work. Avoid contact with the eyes and skin. Remove contaminated clothing. Wash hands thoroughly before breaks and at the end of the working day.

## 8.EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Ingredients with limit values that require monitoring at the workplace:

5989-27-5 (R)-p-mentha-1,8-diene

### 8.2 Exposure controls

#### 8.2.1 Personal protection equipment, general protective and hygienic measures

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

Avoid contact with the eyes and the skin.

**8.2.2.1 Eye/Face protection:** Use tightly sealed goggles.

**8.2.2.2 Skin protection:** Use protective gloves.

**Type of material of gloves:** The material of the gloves has to be impermeable and resistant to the product/the substance/the preparation/the chemical mixture.

However due to the missing information available because no tests have been conducted, the choice of the material of the gloves should take into account the penetration time, rates of diffusion and the degradation.

**Breakthroughtime of the glove material:** The penetration time of the glove material must be set by the manufacturer of the protective gloves according to the substance/the preparation/the chemical mixture.

**8.2.2.3 Respiratory protection:** Wear suitable respiratory equipment in case of insufficient ventilation.

Suitable respiratory protection: filter class A2 (brown colour).

Use the rules for application of respiratory protection systems.

## 9.PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Important health, safety and environmental information

#### 9.1.1 Appearance

**Physical state:** Liquid    **Colour:** According to specifications    **Odour:** Characteristic

#### 9.2.2 Safety relevant basic data

Boiling point: Not determined

Flash point: 51°C

Explosive properties: Product is not explosive; however formation of explosive air/vapour mixtures are possible.

Solubilità/water solubilità: Not miscibile

**Self-igniting:** Product is not selfigniting, but in case of unpropitious storing conditions (air admission, heat accumulation) selfignition is possible for moistened solids (e.g. cloth, pulp, filter panels, binder).

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

## 10. STABILITY AND REACTIVITY

### Reactivity

#### Chemical Stability

**10.1 Thermal decomposition /Conditions to avoid:** Heating causes vaporisation and formation of ignitable atmosphere is possible. Direct source of heat.

**10.2 Incompatible materials:** Strong acids and oxidising agents

**10.3 Possibility of hazardous reactions:** Formation of explosive gas mixture with air possible. In case of unpropitious storing conditions (air admission, heat accumulation) selfignition is possible for moistened solids (e.g. cloth, pulp, filter panels, binder)

**10.4 Hazardous decomposition products:** No dangerous decomposition known.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity:

LD/LC50 values relevant for classification:

Cas : 5989-27-5 (R) – p-mentha-1,8-diene

LD 50 oral (rat) 4400mg/Kg

Acute effects:

Primary irritant effect:

On the skin: Irritant to skin and to mucous membranes.

On the eyes: Irritating effect.

Sensitisation: Sensitisation through skin contact.

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparation as issued in the latest version.

Irritant.

Sensitisation: Sensitisation through skin contact.



## 12.ECOLOGICAL INFORMATION

### General information:

Water hazard class 1 (German regulation) (VwVwS3824, Cas 90045-43-5)

Do not allow to enter canalisation / waterways / groundwater.

Biodegradation: no data available.

Ecotoxic effects: Very toxic to aquatic organism, may cause long term adverse effects in the aquatic environment.

**Warning – The safety of this product has not been determined**

### General notes:

Also poisonous for fish and plankton in water bodies.

May cause long-term adverse effects in the aquatic environment.

Very toxic for aquatic organisms

Water hazard class 2 (German regulation) (VwVwS 3822; CAS 90045-43-5): hazardous for water

## 13.DISPOSAL CONSIDERATION

### General information

The substance, in case of disposal as such, under the EU Regulation no. 1357/2014 of December 18<sup>th</sup> 2014 and the Decision 2014/955 / EU of December 18<sup>th</sup> 2014, is **CLASSIFIED AS DANGEROUS WASTE FOR THE FOLLOWING HAZARD CLASSES: HP3, HP4, HP5, HP13 and HP14** and it is identified with the following C.E.R. code .:

**CER CODE 16 03 05 \* "organic wastes containing dangerous substances"**

### 13.1 Methods of waste treatment

The waste management measures shall be assessed on a case by case basis, depending on the composition of the waste itself, in accordance with the provisions of European and national legislation in force. For handling and measures to be taken in case of accidental dispersion of the waste, please refer to the general indications mentioned on points 6 and 7; nevertheless special precautions and specific actions should be assessed based on the composition of the waste. Please proceed with the disposal of the waste of the substance after evaluating the possibilities of re-use or re-use in the same or in a different production cycle; or after evaluating the possibility to give it to authorized companies in accordance with Legislative Decree no. 152/2006. Waste consisting of the empty containers must be placed in a specifically identified area for their collection, pending the disposal process. This area must be paved and properly covered in order to prevent the washing away which may be caused by rains. The containers, previously emptied, can be disposed of in landfills for special hazardous waste which are authorized to collect the related waste code (C.E.R. 15.01.10).

Disposal through the discharge of wastewater is not allowed.

**14. TRANSPORT INFORMATION****14.1 Land transport (ADR/RID):****UN-No: 1169****Proper shipping name:** Extracts, Aromatic, Liquid**Class:** 3**Subsidiary Risk:** not applicable**Packing group:** III**Hazard Label:** 3**14.2 Sea transport (IMO):****UN-No: 1169****Proper shipping name:** Extracts, Aromatic, Liquid**Class:** 3**Packing group:** III**Marine pollutant:** Yes**EMS:** F-E, S-D**14.3 Air transport (ICAO/IATA):****UN-No: 1169****Proper shipping name:** Extracts, Aromatic, Liquid**Class:** 3**Subsidiary Risk:** not applicable**Packing group:** III**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****· National regulations:****· Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

**· Breakdown regulations:**

Critical quantity values according to the regulations on accidents should be adhered to.

**· Waterhazard class:**

Water hazard class 2 (German regulation) (VwVwS 3822; CAS 90045-43-5): hazardous for water

**· Other regulations, limitations and prohibitive regulations**

Comply with the rules and regulations of skin protection.

Comply with the rules and regulations of respiratory protection.

**16. OTHER INFORMATION**

The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its application. This information is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal and should not to be considered as a warranty or quality specification.

**Recommended restriction of use:** For industrial applications only.

**Classification according to regulation EC 1207/2008 (CLP)****Hazard statements:**

- H226: Flammable liquid and vapour
- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H304: May be fatal if swallowed and enters airways
- H411: Toxic to aquatic life with long lasting effects

**Precautionary Statements:**

- P210: Keep away from heat / sparks/ open flames/ hot surfaces/ no smoking
- P241: Use explosion-proof electrical/ventilating/lighting equipment
- P261: Avoid breathing dust/fumr/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 environment
- P301+P310: If swallowed: immediately call a poison center or doctor/physician
- P303+P361+P353: If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P331: Do not induce vomiting
- P405: Store locked up
- P501: Dispose of contents / container in accordance with local regulations.
- P391: Collect spillage

**Relevant R- and S- phrases:****Risk phrases**

- R 10: Flammable
- R 38: Irritating to skin
- R 43: May cause sensitisation by skin contact
- R 51/53: Dangerous for the environment; Toxic to aquatic organism, may cause long term adverse effects in the aquatic environment.
- R 65: Harmful: may cause lung damage if swallowed.

**Safety phrases:**

- S 24: Avoid contact with the skin
- S 37: Wear suitable gloves
- S 61: Avoid release to the environment. Refer to special instructions/ material safety data sheets
- S62: If swallowed, do not induce vomiting : seek medical advise immediately and show this container or label.



## TECHNICAL SPECIFICATIONS

**Product Name:** Grapefruit White

**Classification according to EU 1334/2008:** Flavouring Preparation

**Industrial Use only**

<b>Chemical-physical characteristics:</b>	<b>Internal Method</b>	<b>Min.</b>	<b>Max</b>
Specific Gravity @15°C	13 EO.2	0.8490	0.8570
Refraction Index @ 20°C	13 EO.1	1.4690	1.4770
Optical rotation @15°C	13 EO.3	+91.0	+102.0
Total Aldehydes %	13 EO.6	0.50	
Color	Yellow to orange		
Odour	Characteristic		

**Storage conditions:** Store dark in well filled tight containers, suitable for essential oils at a temperature of 8-12°C, not in drums. Drums are only a means of transport, not of storage.

**Shelf life:** 12 months if the storage conditions are strictly followed

Date: April 16<sup>th</sup> 2020



## **Vegetarian & Vegan Suitability Statement**

PRODUCT NAME: **Grapefruit White Essential Oil**

MADAR Corporation Limited can confirm that the above listed product has not been tested in animals and does not contain dairy or any other animal product, by product or derivative and is therefore suitable for vegetarian and vegan use.

28/01/19