



Certificate of Analysis

PRODUCT : HYDACHEIUM
BOTANICAL NAME : HEDYCHIUM SPICATUM
GEOGRAPHICAL ORIGIN : INDIA
MODE OF EXTRACTION : STEAM DISTILLED
DISTILLED OR

BATCH NO : 4332706
BEST BEFORE END : AUGUST 2020

ANALYSE PHYSICAL PARAMETERS

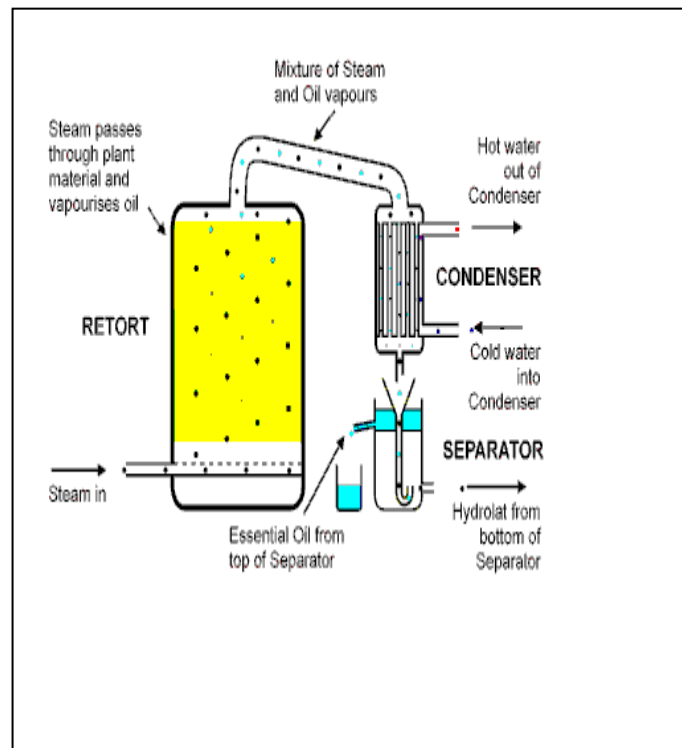
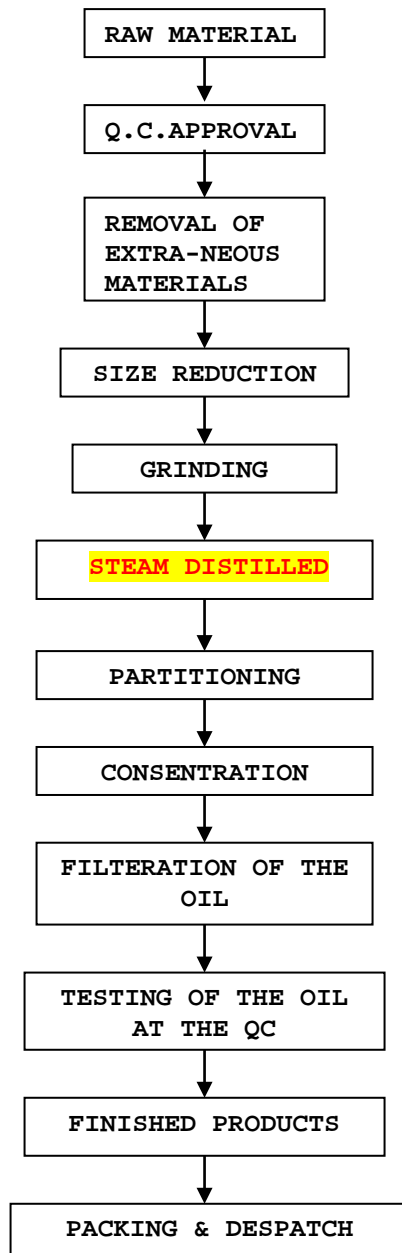
PRODUCT/STANDARD : HYDACHEIUM OIL
DESCRIPTION : YELLOW WITH LIGHT BROWN
ODOUR : PUNGENT ODOUR
OPT.ROTATION : - 3.56
REF.INDEX : 1.4717
SP.GRAVITY : 0.9151
SOLUBILITY : SOLUBLE IN OIL INSOLUBLE IN WATER
STABILITY : STABLE UNDER NORMAL CONDITIONS
REACTIVITY : AVOID OXIDIZING MATERIALS
STORAGE INSTRUCTIONS : SHOULD BE STORED BELOW 20°C IN COOL,
DRY, WELL VENTILATED PLACE IN FULLY &
TIGHTLY SEALED CONTAINERS.
PROTECTED FROM LIGHT & KEEP AWAY
FROM ANY SOURCE OF IGNITION/FIRE



ALLERGENS LIST
Hydacheium Oil

ALLERGENS	CAS NO.	PERCENTAGE IN THE PRODUCT
ANISYL ALCOHOL	105-13-5	NO
BENZYL ALCOHOL	100-51-6	NO
CINNAMYL ALCOHOL	104-54-1	NO
BENZYL BENZOATE	120-51-4	NO
BENZYL CINNAMATE	103-41-3	NO
BENZYL SALICYLATE	118-58-1	NO
CINNMAL	104-55-2	NO
CITRAL	5392-40-5	NO
CITRONELLOL	106-22-9	NO
COUMARIN	91-64-5	NO
D-LIMONENE	5989-27-5	2.67%
EUGENOL	97-53-0	NO
FARNESOL	4602-84-0	NO
GERANIOL	106-24-1	NO
ISOEUGENOL	97-54-1	NO
LINALOOL	78-70-6	21.27%
TREE MOSS	90028-67-4	NO
OAK MOSS	90028-68-5	NO
PHENYL ACETALDEHYDE	122-78-1	NO
AMYL CINNAMIC ALCOHOL	101-85-9	NO
AMYL CINNAMAL	122-40-7	NO
GAMMA METHYL IONONE	127-51-5	NO
HEXYL CINNAMALDEHYDE	101-86-0	NO
HYDROXYCITRONELLAL	107-75-5	NO
LILIAL	80-54-6	NO
LYRAL	31906-04-4	NO
METHYL HEPTINE CARBONATE	111-12-6	NO

PROCESS FLOW CHART HYDACHIEUM





NON-GMO CERTIFICATE

PRODUCT NAME: **Hydacheium Essential Oil**

To the best of our knowledge, the products listed below are not derived from Genetically Modified starting Raw materials or additives that are derived from Genetically Modified Organism and do not contain detectable of Genetically Modified material(known as PCR negative).It is our understanding the EU labeling requirements are based on the presence of detectable level of transgenic material based on this ,the products will not on it shown, require the labeling of these food stuffs and food ingredients as indicated in IEC.NO.: 0690001118 & FDA.REG.NO. : 14936438988 on the authorization, labeling and trace availability of Genetically Modified Organism in Food and Feed.



IFRA CERTIFICATE
Hydacheium Oil

CONSTITUENT	IFRA	CAS	EINECS	RANGE
alpha-iso-Methylionone	NO	122-40-7	204-541-5	NOT DETECTED
Amyl Cinnamal	YES	122-40-7	204-541-5	NOT DETECTED
Amyl Cinnamyl Alcohol	YES	101-85-9	202-982-8	NOT DETECTED
Anisyl Alcohol	NO	1331-81-3	215-561-9	NOT DETECTED
Benzyl Alcohol	NO	100-51-6	202-859-9	NOT DETECTED
Benzyl Benzoate	NO	120-51-4	204-402-9	NOT DETECTED
Benzyl Cinnamate	NO	103-41-3	203-109-3	NOT DETECTED
Benzyl Salicylate	NO	118-58-1	204-262-9	NOT DETECTED
Butylphenyl Methylpropional (Lilial)	NO	80-54-6	-----	NOT DETECTED
Cinnamal	YES	104-55-2	203-213-9	NOT DETECTED
Cinnamyl Alcohol	YES	104-54-1	203-212-3	NOT DETECTED
Citral	YES	5392-40-5	226-394-6	NOT DETECTED
Citronellol	NO	106-22-9	203-375-0	NOT DETECTED
Coumarin	NO	91-64-5	NOT ALLOCATED	NOT DETECTED
Eugenol	YES	97-53-0	202-589-1	NOT DETECTED
Farnesol	YES	4602-84-0	225-004-1	NOT DETECTED
Evernia Furfuraceae (Tree Moss) Extract	NO	90028-67-4	-----	NOT DETECTED
Evernia Prunastri (Oak Moss) Extract	NO	90028-68-5	-----	NOT DETECTED
Geraniol	NO	106-24-1	203-377-1	NOT DETECTED
Hexyl Cinnamal	YES	101-86-0	202-983-3	NOT DETECTED
Citronellal Hydrate	YES	107-75-5	203-518-7	NOT DETECTED
Iso-Eugenol	YES	97-54-1	202-590-7	NOT DETECTED

Butyl Phenyl Methyl Propinal	YES	80-54-6	201-289-8	NOT DETECTED
Limonene	YES	5989-27-5	227-813-5	2.67%
Linalool	YES	78-70-6	201-134-4	21.27%
Hydroxyisohexyl-3-Cyclohexene	NO	31906-04-4	250-863-4	NOT DETECTED
Methyl Heptin Carbonate	YES	111-12-6	203-836-6	NOT DETECTED
Methyl Ionone	YES	127-51-5	204-846-3	NOT DETECTED
Methyl Eugenol	YES	93-15-2	-----	NOT DETECTED
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyral	NO	31906-04-4	-----	NOT DETECTED
Methyl 2-Octynoate	NO	111-12-6	-----	NOT DETECTED

Madar Corporation Certifies that the above mentioned fragrance product is in compliance with the standards of the INTERNATIONAL FRAGRANCE ASSOCIATION [IFRA 48th Amendment (June '15)], provided the fragrance is used in the following application(s) at the following maximum concentration level(s):

APPLICATION	MAXIMUM USAGE LEVEL
1.A - Lip Products of all Types (Solid & Liquid) lipsticks, Balms & Wax (Clear or Colored)	NOT Allowed
1.A - Toys	NOT Allowed
2 - Body Sprays & Mists, Men & Women (intended or labeled for use in axillae)	4.0%
2 - Deodorant and Antiperspirant Products of all types (spray, stick, roll-on, under-arm & body, etc.)	4.0%
2 - Fragranced Bracelets	4.0%
2 - Nose Pore Strips	4.0%
3.A - Hydroalcoholic Products Applied to Recently Shaved Skin (EDT)	10.0%
3.B - Hydroalcoholic Products Applied to Recently Shaved Skin (Fine Fragrance)	10.0%
3.C - Baby Creams, Lotions, Oils	10.0%
3.C - Body Paint for Children	10.0%
3.C - Eye Products of all Types (eye shadow, mascara, eyeliner, eye make-up, make-up, etc.) including eye care	10.0%
3.C - Men's Facial Creams, Balms	10.0%
3.D - Tampons	10.0%

4.A - Hydroalcoholic Products Applied To Unshaved Skin (EDT)	10.0%
4.A - Ingredients of Perfume Kits	10.0%
4.A - Scent Pads, Foil Packs	10.0%
4.A - Scent Strips for Hydroalcoholic Products	10.0%
4.B - Hydroalcoholic Products Applied To Unshaved Skin (Fine Fragrance)	10.0%
4.C - Body Creams, Oils, Lotions of all types (except baby products)	10.0%
4.C - Body Paint for Adults (excludes Childrens Products)	10.0%
4.C - Body Sprays (Not intended for Axillae)	10.0%
4.C - Foot Care Products	10.0%
4.C - Fragrance Compounds for Cosmetic Kits	10.0%
4.C - Hair Deodorant	10.0%
4.C - Hair Styling Aids, Hair Sprays of all Types (pumps, aerosol sprays, etc.)	10.0%
4.D - Fragrancing cream & Solid Perfumes	10.0%
5 - Baby Powder and Talc	10.0%
5 - Dry or Waterless Shampoo	10.0%
5 - Facial Masks	10.0%
5 - Hair Permanent & Chemical Treatments (e.g. relaxers) but not hair dyes	10.0%
5 - Hand Cream	10.0%
5 - Hand sanitizers	10.0%
5 - Wipes or Refreshing Tissues for Face, Neck, Hands, Body	10.0%
5 - Women's Facial Creams/Facial Make-up	10.0%
6 - Mouthwash, Including Breath Sprays	NOT ALLOWED
6 - Toothpaste	NOT ALLOWED
7.A - Baby Wipes	8.0%
7.A - Intimate (Feminine)Wipes	8.0%
7.A - Toilet Wipes & Paper	8.0%
7.B - Insect Repellent (intended to be applied to the skin)	8.0%
8.A - Hair Styling Aids Non-Spray of all types (mousse, gels, leave-in conditioners)	10.0%
8.A - Make-up Removers of all types (not including face cleansers)	10.0%
8.A - Nail Care	10.0%
8.A - All Powders & Talcs (Except baby Powders & Talcs)	10.0%
8.B - Hair Dyes	10.0%
9.A - Bath Gels, Foams, Mousses, Salts, Oils & other products added to bathwater	10.0%
9.A - Body Washes of all types (including baby washes) & Shower Gels of all Type	10.0%
9.A - Conditioner (Rinse-Off)	10.0%

9.A - Depilatory	10.0%
9.A - Face Cleansers of all types (washes, gels, scrubs, etc.)	10.0%
9.A - Shampoos of all types (including baby shampoos)	10.0%
9.A - Shaving Creams of all types (stick, gels, foams, etc.)	10.0%
9.A - Soap Liquid & Bar (Toilet Soap)	10.0%
9.B - Feminine Hygiene - Pads & Liners	10.0%
9.B - Wheat Bags	10.0%
9.C - Air fresheners sprays (incl. Room Sprays, Aerosols & Pump; excl. deodorant, hair styling aids, & animal)	10.0%
9.C - Facial Tissues, Napkins, Paper Towels & Toilet Paper	10.0%
10.A - Dry Cleaning Kits	10.0%
10.A - Fabric Softeners of all types including fabric softener sheets	10.0%
10.A - Hand Dishwashing Detergent including concentrates	10.0%
10.A - Handwash Laundry Detergents of all types including concentrates	10.0%
10.A - Hard Surface Cleaners (Bathroom & Kitchen Cleansers & Furniture polish, etc.)	10.0%
10.A - Machine Wash Laundry Detergent & Bleach (liquids, powders, tablets, etc.) including laundry bleach and concentrates	10.0%
10.A - Other Household Cleaning Products (fabric, soft surface & Carpet Cleaners)	10.0%
10.A - Shampoos for pets	10.0%
10.B - Diapers	10.0%
10.B - Scented Gloves or Socks	10.0%
10.B - Toilet seat wipes	10.0%
11 - Air Delivery Systems (Automated or with Manual Activator) with no contact with dispensing port.	No Restriction
11 - Air Fresheners (Solids, Liquid or Closed systems). Excluding aerosol products	No Restriction
11 - All non-skin or incidental skin contact	No Restriction
11 - Animal sprays & Cat Litter	No Restriction
11 - Candles	No Restriction
11 - Concentrated Aerosol Air Fresheners for metered systems	No Restriction
11 - Deodorizers/Maskers not intended for skin contact (Fabric drying machine deodorizers, carpet powders)	No Restriction
11 - Floor Wax	No Restriction
11 - Fuels & Paints	No Restriction
11 - Insecticides (mosquito coil, paper, electrical, for clothing) excluding aerosols	No Restriction
11 - Joss Sticks, Incense, Crystals/Stones, Blotters, Sachets & Fragrance Lamp Ring	No Restriction

11 - Liquid Air Freshener Refills (Cartridge & Non-Cartridge Systems)	No Restriction
11 - Machine Dishwash detergent and deodorizers	No Restriction
11 - Machine only Laundry Detergent (e.g. liquid tabs)	No Restriction
11 - Odored Distilled Water (that can be added to steam irons)	No Restriction
11 - Plastic Articles (excluding toys)	No Restriction
11 - Reed Diffusers & Liquid Refills (Cartridge & Non-Cartridge Systems)	No Restriction
11 - Scent delivery systems using dry air technology that releases a fragrance without sprays, aerosols or heated oils	No Restriction
11 - Scent Pack	No Restriction
11 - Scratch and Sniff	No Restriction
11 - Shoe Polishes	No Restriction
11 - Toilet Blocks	No Restriction
11 - Treated Textiles (starch sprays, fabric treated with fragrance after wash, deodorizers for textiles, tights with moisturizers)	No Restriction

The above mentioned fragrance is in compliance with the standards of the International Fragrance Association, provided the fragrance is used in the above application(s) at the noted maximum concentration level(s). This fragrance contains ingredients which are NOT considered GRAS, Generally Regarded as Safe as a Flavor Ingredient. It is the ultimate responsibility of the customer to ensure the safety of the final product containing this fragrance, by further testing, if necessary. For all other applications, or use at higher concentration levels, a new evaluation will be required.



1. Date of issue 1

2.09.2016

2. TRADE NAME

HYDACHEIUM OIL

3.Name of Manufacturer & Supplier

MADAR Corporation Limited

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

4.Name of Product

HYDACHEIUM OIL

5.CHEMICAL IDENTIFICATION

N/A

6.COMPOSITION/INFORMATION ON INGREDIENTS

N/A

7. HAZARD IDENTIFICATION

NON-HAZARDIOUS

8. FIRST AID MEASURES

INHALATION EXPOSURE-Remove from exposure site to Fresh Air. Keep at rest, obtain medicinal attention.

EYE CONATCT-Rinse immediately with plenty of water for at least 15 Mins.

SKIN CONTACT-Remove contaminated clothes wash thoroughly with Soap & Water.

9.FIRE FIGHTING MEASURES

Non-Inflammable, Fire FIGHTER SHOULD WEAR POSITIVE SELF CONTAINED BREATHING APPARATUS.

10.ACCIDENTAL RELEASE MEASURE

PERSONAL PRECAUTIONS-Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment in case of major spillages.

ENVIORNMENT PRECAUTIONS-Keep away from drains, soils, surface & ground waters.

11.HANDLING PROCEDURE

H.D.P.E. CONTAINER OR ALIUM BOTTLES.

RECOMMENDED STORAGE CONDITIONS-Store in tightly closed original container in a cool, dry & ventilated area away from heat sources
& protected from light.

12.EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION-Avoid breathing product vapour.

VENTILATION-Ensure good ventilation of working area.

13.PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCES : YELLOW WITH LIGHT BROWN
ODOUR : PUNGENT ODOUR
FLASH POINT : 120°C
BOILING POINT : 96°C
OPT.ROTATION : -3.56
REF.INDEX : 1.4717
SP.GRAVITY : 0.9151
SOLUBILITY : INSOLUBLE IN WATER

14.STABILITY AND REACTIVITY

REACTIVITY-It present no significant reactivity hazards.

15.TOXICOLOGICAL INFORMATION

NON-TOXIC

16.ECOLOGICAL INFORMATION

Biodegradability- Data not available

Precautions-Prevent surface contamination of soil, ground & surface water

17.DISPOSAL CONSIDERATION

Avoid disposing to drainage systems and into the environment. Seek expert advice.

18.TRANSPORT-INFORMATION

1.BY ROAD.

2.BY AIR.

19.REGULATORY INFORMATION

20.OTHER COMMWNT

The above documents are compiled from accessible information. The employer is bound to comply regulations.



SPECIFICATIONS

Hydacheium Oil

<u>GEOGRAPHICAL ORIGIN</u>	: INDIA
<u>MODE OF EXTRACTION</u>	: STEAM DISTILLED
<u>DISTILLED OR</u>	
<u>EXPRESSED ORGAN</u>	: ROOT
<u>PRODUCT/</u>	: HEDYCHIUM OIL
<u>STANDARD</u>	: YELLOW WITH LIGHT BROWN
<u>DESCRIPTION</u>	: PUNGENT ODOUR
<u>ODOUR</u>	: - 6 TO + 10
<u>OPT.ROTATION</u>	: 1.4525 TO 1.4985
<u>REF.INDEX</u>	: 0.8720 TO 0.9375
<u>SP.GRAVITY</u>	: 02 YEARS FROM THE DATE OF MFG.
<u>SHELF LIFE</u>	: SOLUBLE IN OIL INSOLUBLE IN WATER
<u>SOLUBILITY</u>	: STABLE UNDER NORMAL CONDITIONS
<u>STABILITY</u>	: AVOID OXIDIZING MATERIALS
<u>REACTIVITY</u>	: SHOULD BE STORED BELOW 20°C IN
<u>STORAGE</u>	COOL, DRY, WELL VENTILATED PLACE IN
<u>INSTRUCTIONS</u>	FULLY & TIGHTLY SEALED
	CONTAINERS. PROTECTED FROM LIGHT &
	KEEP AWAY FROM ANY SOURCE OF
	IGNITION/FIRE.



Vegetarian & Vegan Suitability Statement

PRODUCT NAME: **Hydacheium 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.