

CERTIFICATE OF ANALYSIS

Product Batch Number Best Before End	CITRAL 4377504 NOVEMBER 2022
NATURAL OCCURRENCE	IN LEMON, ORANGE, ETC; ISOLATED FROM LEMONGRASS OIL.
APPEARANCE	CLEAR ,PALE YELLOW LIQUID.(REDISH - YELLOW ON KEEPING).
REF. IND. AT 20 $^{\circ}$ C.	1. 486 TO 1. 490.
OPT.ROTN.	0° I INACTIVE
ASSAY	96 % MIN. G.C.
BOILING PT.	228° C./ ATM.PR.
SP.GR.AT 25° <i>I</i> 25° C.	0. 885 TO 0.891.
ODOUR	STRONG - FRESH, LEMON PEEL LIKE.
FLAVOUR/TASTE	BITTERISH, LEMON PEEL LIKE.
SOLUBILITY	SOLUBLE IN 1: 1 RATIO IN PROPYLENE GLYCOL & MINERAL OIL.
	FLAVOUR AND FRAGRANCE INDUSTRY, PERFUMERY COMPOUND, SOAPS.CANDLES



DECLARATION OF ALLERGENS

PRODUCT

Citral Oil

MATERIAL	CAS	TOTAL ALLERGEN
	NUMBER	INCLUSION LEVEL (%)
AMYL CINNAMAL	122-40-7	-
BENZYL ALCOHOL	100-51-6	-
CINNAMYL ALCOHOL	104-54-1	-
CITRAL	5392-40-5	96
EUGENOL	97-53-0	-
HYDROXYCITRONELLAL	107-75-5	-
ISO EUGENOL	97-54-1	-
AMYL CINNAMYL ALCOHOL	101-85-9	-
BENZYL SALICYLATE	118-58-1	-
CINNAMAL	104-55-2	-
COUMARIN	91-64-5	-
GERANIOL	106-24-1	-
HYDROXYISOHEXYL 3-CYCLOHEXENE	31906-04-4	
CARBOXALDEHYDE		-
ANISE ALCOHOL	105-13-5	-
BENZYL CINNAMATE	103-41-3	-
FARNESOL	4602-84-0	-
BUTYLPHENYL METHYLPROPIONAL	80-54-6	-
LINALOOL	78-70-6	-
BENZYL BENZOATE	120-51-4	-
CITRONELLOL	106-22-9	-
HEXYL CINNAMAL	101-86-0	-
LIMONENE	5989-27-5	-
METHYL 2-OCTYNOATE	111-12-6	-
ALPHA-ISOMETHYL IONONE	127-51-5	-
EVERNIA PRUNASTRI EXTRACT	90028-68-5	-
EVERNIA FURFURACEA EXTRACT	90028-67-4	-
		96%



BRIEF MANUFACTURING PROGRESS FLOW CHART

Manufacturing process of Citral Essential Oils

- harvesting Grass \rightarrow
- Collecting of Grass , \rightarrow
- Drying the Grass in sun light \rightarrow
- Filling of crushed Seed in Vessel \rightarrow
- Steam distillation process start \rightarrow
- Collection of oil from separator Tank \rightarrow
- Filling of Lemon Grass oil in Vessel \rightarrow
- Friction distillation process start \rightarrow
- Collection of oil from Tank \rightarrow
- Filtration of oil and dirty part. \rightarrow
- Storage of Oils in drums \rightarrow
- Testing of lot sample for quality \rightarrow
- Send to warehouse for sale.



GMO AND VEGAN STATEMENT

Citral Essential Oil(Cymbopogon Citratus)

CUSTOMS TARIFF NO. : 3301.29.00.00 COUNTRY OF ORIGIN : INDIA

We certify that no alcohol or animal derivatives were used during the manufacturing process.

We further certify that it does not contain any chemical, pesticides or alcohol And it is GMO free product.

We confirm that material did not undergo irradiation during any stage of the manufacturing process.

This is also confirm that this oil is suitable for Vegan users.

03.01.2019



IFRA

CITRAL ESSENTIAL OIL

INCi Name :CYMBOPOGON FLEXUOSUS/CITRATUS

We certify that the above compound is in compliance with the standards of the INTERNATIONAL FRAGRANCE ASSOCIATION {IFRA 48TH Amendment}, provided it is used in the following class(es) at a maximum concentration level of:

IFRA Class(es) (See Annex for Details)	Max Level of Use (%)
Class 1{*)	No Limit(*)
Class 2	No Limit
Class 3A	No Limit
Class 3B	No Limit
Class 3C	No Limit
Class 3D	No Limit
Class 4A	No Limit
Class 4B	No Limit
Class 4C	No Limit
Class 4D	No Limit
Class 5	No Limit
Class 6(*)	No Limit(*)
Class 7A	No Limit
Class 7B	No Limit
Class 8A	No Limit
Class 8B	No Limit
Class 9A	No Limit
Class 9B	No Limit
Class 9C	No Limit
Class IOA	No Limit
Class 10B	No Limit
Class 11	No Limit

(*) 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.

The IFRA Standards regarding use 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.

ANNEX: Definition of IFRA Classes

FINISHED PRODUCT TYPES	IFRA CATEGORY
Lip Products of all types (solid and liquid lipsticks. balms. lear or coloured, etc.), Children's Toys.	Class 1
Deodorant and Antiperspirant Products of all types including any product with Intended or I reasonably foreseeable use on the axillae or labelled as such (spray, s ick, roll-on. under-arm, dee-cologne and body spray, etc.) Nose Pore Strips. Fragranced Bracelets.	Class 2
Hydroalcoholic Products - Applied to Recently Shaved Skin (includes After Shave)	Class 3A
Hydroalcoholic Pr9ducts Applied-to Recently Shaved Skin (includes After Shave) Fine Fragrance.	Class 3B
Eye Products of all types (eye shadow, mascara, eyeliner, eye make-up, etc.) including eye care. Men's Facial creams and Balms. Baby Creams, Lotions, Oils. Body Paint for Children.	Class 3C
Tampons.	Class 3D
Hydroalcoholic Products applied to unshaved skin (includes aqueous based, alcoholic based and hydroalcoholic) like Cologne, Eau de cologne, Eau de Parfum or Parfum. Ingredients or Perfume Kits. Scent Pads, Foil Packs. Scent Strips for hydroalcohollc products.	Class 4A
Fine Fragrance - Hydroalcoholic Products applied to unshaved s ·in (includes aqueous based, alcoholic based and hydroalcohlic) like Cologne, eau de cologne, Eau de Parfum or parfum.	Class 4B
Hair Styling Aids, Sprays of all types (pumps, aerosol sprays, etc.) Body Creams, Oils, Lotions of all types (except baby creams, lotions and oils). Body sprays (including Body Mist) with no intended or reasonably foreseeable use on the axillae. Fragrance Compounds for Cosmetic Kits. Foot care products. Hair deodorant.	Class 4C
Body Paint except those for children) fragrance Cream, Solid Perfumes.	Class 4D

Facial Macka	E/*)
Facial Masks.	5(*)
Women's Facial Creams/Facial Make-up, Hand Cream, Hand	
Sanitizers, Baby Powder and Talc, Hair Permanent and	
other hair chemical treatments (e.g. relaxers) but not hair	
dyes, Wipes or Refreshing Tissues for Face, Neck, Hands,	
Body, Dry Shampoo or Waterless Shampoo.	
Mouthwash, including Breath Sprays, Toothpaste.	Class 6
Intimate Wipes, Baby Wipes.	Class 7A
Insect Repellent (intended to be applied to skin).	Class 7B
Make-up Removers of all types (not including face	Class 8A
cleansers). Hair Styling Aids Non-Spray of	
all types (mousse, gels, leave-conditioners, etc.), Nail Care,	
Powders and talc's, all types (expect baby powder and	
talc's)	
Hair Dyes	Class 8B
Conditioner (Direc Off) Limited Opera Oberranes of all three	
Conditioner (Rinse-Off), Liquid Soap, Shampoos of all types	Class 9A
(including baby shampoos), Face Cleansers of all types	
(washes, gels, scrubs, etc.). Shaving Creams of all types	
(stick, gels, foams, etc.), All Depilatories (including waxes	
for mechanical hair removal), Body Washes of all types	
(including baby washes) and Shower Gels of all types, Bar	
Soap (Toilet Soap), Bath Gels, Foams, Mousses, Salts, Oils	
and Other Products added to bathwater.	
Feminine hygiene - pads, liners, Toilet paper, Wheat bags.	Class 9B
Facial tissues, Napkins, Paper towels, Other Aerosols	Class 9C
(including air freshener sprays and air freshener pump	
sprays, but not including deodorants/antiperspirants, hair	
styling aids/sprays	
Hand wash Laundry Detergents of all types including	Class 10A
concentrates, Fabric Softeners of all types including fabric	
softener sheets, household Cleaning Products, Other	
Types (fabric cleaners, soft surface cleaners, carpet	
cleaners, etc.) Machine Wash Laundry Detergents	
(liquids, powders, tablets, etc.) including laundry bleach	
and concentrates, Hand	
Dishwashing Detergent including concentrates, Hard	
Surface Cleaners of all types (bathroom and kitchen	
cleansers, furniture polish, etc.), Shampoos for pets, Dry	
cleaning kits, Scented gloves, socks, tights with	
moisturisers.	
Diapers, Toilet seat wipes.	Class 10B
Diapers, Tollet seat wipes.	
I	

All non-skin contact or incidental skin contact including: Candles, Air Fresheners and Fragrance of all types (concentrated aerosol with metered doses (range 0.05- 0.8ml/spray), plug-ins, solid substrate, membrane delivery, electrical), Air Delivery Systems, Cell Phone Cases, Pot pourri, powders, fragrance sachets, liquid refills for air fresheners (non-cartridge systems), Reed diffusers, Liquid refills for air fresheners (cartridge systems), Shoe Polishes, Deodorisers/Maskers not intended for skin contact (e.g. fabric drying machine deodorisers, carpet powders), Insecticides (mosquito coil, paper, electrical for clothing etc.) excluding aerosols, Scent delivery system using a dry air technology that releases a fragrance without sprays, aerosols or heated oils (technology of nebulisation), Air freshening crystals, Toilet Blocks, Joss Sticks or Incense Sticks, Machine-only wash Detergent and Deodorisers	Class 11
air technology that releases a fragrance without sprays, aerosols or heated oils (technology of nebulisation), Air	
Machine-only Laundry Detergent (e.g. Liquitabs)**, Plastic articles (excluding toys), Fuels, Fragranced lamp ring, Scratch and Sniff (sampling technology), Paints, Cat Litter, Animal Sprays (all types), Treatment products for textiles (e.g. starch sprays, fabric treated with fragrances after	
wash, deodorisers for textiles or fabrics), Floor Wax, Odoured Distilled Water (that can be added to steam irons).	

*Class 5, Facial Masks: There are several types of mask: peel off (similar to rinse-off, rinse off and leave-on (you only remove the excess with facial tissue). To ease the split the most restrictive, i.e. leave-on is applied for all.

**Liquitabs corresponds to a dose of liquids wrapped in a film: no contact with hands is expected under normal conditions of use.

The table was prepared with the intention to cover the vast majority of the products; however, it may not cover some specific applications. In this case other classes may be attributed bases on a specific risk assessment.



SAFETY DATA SHEET

CITRAL ESSENTIAL OIL

21/02/20

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier : CITRAL ESSENTIAL OIL Product name CAS number : 5392-40-5 FEMA #: 2303 HTC #: 2912.19.1000 Ec no. : 226-394-6 1.2. Relevant identified uses of the substance or mixture and uses advised against Identified uses Concentrated material for manufacturing purposes only. 1.3. Details of the supplier of the safety data sheet Supplier MADAR Corporation Limited 19-20 Sandleheath Industrial Estate For dingbridge Ham<u>p</u>Shire

1.4. Emergency telephone number

Emergency telephone + 44 1425 655555 Office Hours are 09:00 - 17:30 weekdays only

SP6 1PA

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture		
Classification	:(_1907/2006)	
Physical hazards	:Not Classified	
Health hazards	:Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Asp. Tox. 1 - H304	
Environmental hazards	:Aquatic Chronic 3 - H412	
2.2. Label elements		
Pictogram		
Signal word	: Danger	



Hazard statements	H304 May be fatal if swallowed and enters airways.	
	H315 Causes skin irritation.	
	H317 May cause an allergic skin reaction.	
	H319 Causes serious eye irritation.	
	H412 Harmful 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.	
	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
	P302+P352 IF ON SKIN: Wash with plenty of water.	
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove	
	contact lenses, if present and easy to do. Continue rinsing.	
	P331 Do NOT induce vomiting.	
Contains	: CITRAL 96%	
Supplementary precautionary	: P261 Avoid breathing vapour/ spray	
Statements	P264 Wash contaminated skin thoroughly after handling.	
	P272 Contaminated work clothing should not be allowed out of the workplace.	
	P321 Specific treatment (see medical advice on this label).	
	P332+P313 If skin irritation occurs: Get medical advice/ attention.	
	P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.	
	P337+P313 If eye irritation persists: Get medical advice/ attention.	
	P362+P364 Take off contaminated clothing and wash it before reuse.	
	P405 Store locked up.	
	P501 Dispose of contents/ container in accordance with national regulations.	
2.3. Other hazards		
SECTION 3	: Composition/information on ingredients	
3.2. Mixtures		
96% CITRAL CAS: 5392-40-5, E	C: 226-394-6	
Classification (EC 1907/2006)	Eye Irrit. 2, H319, Aquatic Acute 1, H400, M Acute = 1, Aquatic Chronic 1,	
H410 M Chronic = 1		
	.: 106-24-1 EC No.: 203-377-1	
Classification (EC 1107/2009) Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1,		
H317 0.4 – 1.0% Limonene CAS-No.: 5989-27-5 EC No.: 227-813-5		
CAS number: 138-86-3 EC number: 205-341-0		
M factor (Acute) = 1 M factor (Chronic) = 1		
Classification		
Flam. Lig. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		



SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	:Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

General information	Persons suffering from asthma, eczema or skin problems should avoid contact, including:	
	dermal contact, with this product. See Section 11 for additional information on health hazards.	

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor :No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:Extinguish with the following media: Foam, carbon dioxide or dry powder.Unsuitable extinguishing media:Water.

$\underline{\textbf{5.2. Special hazards arising from the substance or mixture}$

Specific hazards	:Toxic gases or vapours.
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5.3. Advice for firefighters	
Protective actions during	
Firefighting	:Containers close to fire should be removed or cooled with water.
Special protective equipment	
for firefighters	:Wear positive-pressure self-contained breathing apparatus (SCBA) and
	appropriate protective clothing.



SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	ve equipment and emergency procedures
Personal precautions	:Wear suitable protective equipment, including gloves, goggles/face shield, respirator,
	boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of
	ignition near spillage.
6.2. Environmental precautions	
Environmental precautions	:Do not discharge into drains or watercourses or onto the ground.
6.3. Methods and material for cont	ainment and cleaning up
Methods for cleaning up	:Keep combustible materials away from spillage. Eliminate all sources of ignition.
	Provide adequate ventilation. Contain and absorb spillage with sand, earth or other
	non-combustible material. The contaminated absorbent may pose the same hazard as the
	spilled material.Collect and place in suitable waste disposal containers and seal securely.
	Label the containers containing waste and contaminated materials and remove from the area
	as soon as possible. Wash thoroughly after dealing with a spillage.
6.4. Reference to other sections	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Usage precautions	:Wear protective clothing as described in Section 8 of this safety data sheet.
	Avoid contact with skin, eyes and clothing.
Advice on general	Do not eat, drink or smoke when using this product. Wash at the end of each work shift and
occupa tioral hygi ere	:before eating, smoking and using the toilet.
occupa tioral hygi ere	:before eating, smoking and using the toilet.
occupa tional hygi ene 7.2. Conditions for safe storage, in	
7.2. Conditions for safe storage, in	cluding any incompatibilities
7.2. Conditions for safe storage, in	cluding any incompatibilities : Store in tightly-closed, original container in a dry, cool and well-ventilated place.
7.2. Conditions for safe storage, in Storage precautions	cluding any incompatibilities : Store in tightly-closed, original container in a dry, cool and well-ventilated place.
7.2. Conditions for safe storage, in Storage precautions	cluding any incompatibilities : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep awayfrom heat, sparks and open flame. Protect from freezing and direct sunlight.
7.2. Conditions for safe storage, in Storage precautions 7.3. Specific end use(s)	cluding any incompatibilities : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep awayfrom heat, sparks and open flame. Protect from freezing and direct sunlight.
 7.2. Conditions for safe storage, in Storage precautions 7.3. Specific end use(s) SECTION 8: Exposure Controls/period 	cluding any incompatibilities : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep awayfrom heat, sparks and open flame. Protect from freezing and direct sunlight.
7.2. Conditions for safe storage, in Storage precautions 7.3. Specific end use(s) SECTION 8: Exposure Controls/per 8.1. Control parameters	cluding any incompatibilities : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep awayfrom heat, sparks and open flame. Protect from freezing and direct sunlight.
7.2. Conditions for safe storage, in Storage precautions 7.3. Specific end use(s) SECTION 8: Exposure Controls/pe 8.1. Control parameters Ingredient comments	cluding any incompatibilities : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep awayfrom heat, sparks and open flame. Protect from freezing and direct sunlight.
7.2. Conditions for safe storage, in Storage precautions 7.3. Specific end use(s) SECTION 8: Exposure Controls/per 8.1. Control parameters Ingredient comments 8.2. Exposure controls	cluding any incompatibilities : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep awayfrom heat, sparks and open flame. Protect from freezing and direct sunlight.
 7.2. Conditions for safe storage, in Storage precautions 7.3. Specific end use(s) SECTION 8: Exposure Controls/per 8.1. Control parameters Ingredient comments 8.2. Exposure controls Protective equipment 	<u>cluding any incompatibilities</u> : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep awayfrom heat, sparks and open flame. Protect from freezing and direct sunlight. <u>ersonal protection</u> :No exposure limits known for ingredient(s).
7.2. Conditions for safe storage, in Storage precautions 7.3. Specific end use(s) SECTION 8: Exposure Controls/per 8.1. Control parameters Ingredient comments 8.2. Exposure controls Protective equipment Appropriate engineering controls	<u>cluding any incompatibilities</u> : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep awayfrom heat, sparks and open flame. Protect from freezing and direct sunlight. <u>ersonal protection</u> :No exposure limits known for ingredient(s). Provide adequate ventilation.
7.2. Conditions for safe storage, in Storage precautions 7.3. Specific end use(s) SECTION 8: Exposure Controls/per 8.1. Control parameters Ingredient comments 8.2. Exposure controls Protective equipment Appropriate engineering controls	<u>cluding any incompatibilities</u> : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep awayfrom heat, sparks and open flame. Protect from freezing and direct sunlight. <u>ersonal protection</u> :No exposure limits known for ingredient(s). Provide adequate ventilation. :Eyewear complying with an approved standard should be worn if a risk assessment
7.2. Conditions for safe storage, in Storage precautions 7.3. Specific end use(s) SECTION 8: Exposure Controls/per 8.1. Control parameters Ingredient comments 8.2. Exposure controls Protective equipment Appropriate engineering controls	cluding any incompatibilities : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep awayfrom heat, sparks and open flame. Protect from freezing and direct sunlight. ersonal protection :No exposure limits known for ingredient(s). Provide adequate ventilation. :Eyewear complying with an approved standard should be worn if a risk assessment Indicates eye contact is possible. The following protection should be worn:
 7.2. Conditions for safe storage, in Storage precautions 7.3. Specific end use(s) SECTION 8: Exposure Controls/pe 8.1. Control parameters Ingredient comments 8.2. Exposure controls Protective equipment Appropriate engineering controls Eye/face protection 	cluding any incompatibilities : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep awayfrom heat, sparks and open flame. Protect from freezing and direct sunlight. ersonal protection :No exposure limits known for ingredient(s). Provide adequate ventilation. :Eyewear complying with an approved standard should be worn if a risk assessment Indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.
 7.2. Conditions for safe storage, in Storage precautions 7.3. Specific end use(s) SECTION 8: Exposure Controls/pe 8.1. Control parameters Ingredient comments 8.2. Exposure controls Protective equipment Appropriate engineering controls Eye/face protection Hand protection 	cluding any incompatibilities : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep awayfrom heat, sparks and open flame. Protect from freezing and direct sunlight. ersonal protection :No exposure limits known for ingredient(s). Provide adequate ventilation. :Eyewear complying with an approved standard should be worn if a risk assessment Indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. :Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
 7.2. Conditions for safe storage, in Storage precautions 7.3. Specific end use(s) SECTION 8: Exposure Controls/pe 8.1. Control parameters Ingredient comments 8.2. Exposure controls Protective equipment Appropriate engineering controls Eye/face protection 	<u>cluding any incompatibilities</u> : Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep awayfrom heat, sparks and open flame. Protect from freezing and direct sunlight. <u>ersonal protection</u> :No exposure limits known for ingredient(s). Provide adequate ventilation. :Eyewear complying with an approved standard should be worn if a risk assessment Indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. :Chemical-resistant, impervious gloves complying with an approved standard should be

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Hygiene measures	:No specific hygiene procedures recommended but good personal hygiene practices			
	Should always be observed when working with chemical products.			
Respiratory protection	:No specific recommendations. Respiratory protection may be required if excessive			
	Airborne contamination occurs.			
Environmental exposure controls	:Residues and empty containers should be taken care of as hazardous waste according			
	To local and national provisions.			
SECTION 9: Physical and Chemica	al Properties			
9.1. Information on basic physical and chemical properties				
Appearance	:Liquid.			
Colour	:Cear Yellow .			
Odour	: Strong – Fresh, Lemon Peel Like			
Flash point	97.5 °C			
Relative density	:~ 0. 885 TO 0.891@ 25°C			
9.2. Other information				
Refractive index	: ~1. 486 TO 1. 490@ 25°C			
SECTION 10: Stability and reactivit	<u>ک</u>			
10.1. Reactivity				
10.2. Chemical stability				
Stability	:Stable at normal ambient temperatures.			
10.3. Possibility of hazardous react	ions			
Possibility of hazardous reactions	:Will not polymerise.			
10.4. Conditions to avoid				
Conditions to avoid	:Avoid heat, flames and other sources of ignition.			
10.5. Incompatible materials				
Materials to avoid	:Strong oxidising agents. Strong acids. Strong alkalis.			
10.6. Hazardous decomposition pro	oducts			
Hazardous decomposition products	:Thermal decomposition or combustion may liberate carbon oxides and other toxic			
	gases or vapours.			
SECTION 11: Toxicological information	ation			
11.1. Information on toxicological e	ffects			
Acute toxicity - oral				
ATE oral (mg/kg)	:65,000.0			
Ingestion	:May be fatal if swallowed and enters airways.			
Skin contact	: Irritating to skin. May cause sensitisation by skin contact.			
Eye contact	:Causes serious eye irritation.			



Acute toxicity - oral			
Acute toxicity oral (LD50 mg/k	(g) : 1,300.0		
Species	:Rat		
ATE oral (mg/kg)	:1,300.0		
Acute toxicity - dermal			
Acute toxicity dermal (LD50m)	g/kg) :2,500.0		
Species	:Rabbit		
ATE dermal (mg/kg)	:2,500.0		
SECTION 12: Ecological Info	ormation		
Ecotoxicity	: Harmful to aquatic life with long lasting effects.		
12.1. Toxicity			
LIMONENE			
Acute aquatic toxicity			
LE(C) ₅₀	$:0.1 < L(E)C50 \le 1$		
M factor (Acute)	:1		
Chronic aquatic toxicity			
M factor (Chronic)	:1		
12.2. Persistence and degradability			
Persistence and degradability	:The product is expected to be biodegradable.		
12.3. Bioaccumulative potent	ial		
Bioaccumulative potential	:The product does not contain any substances expected to be bio accumulating.		
12.4. Mobility in soil			
Mobility	:The product is insoluble in water.		
12.5. Results of PBT and vPvB assessment			
Results of PBT and vPvB assessment : This product does not contain any substances classified as PBT or vPvB.			
12.6. Other adverse effects			
SECTION 13: Disposal considerations			
13.1. Waste treatment metho	uds		
Disposal methods	:Dispose of waste product or used containers in accordance with local regulations		
SECTION 14: Transport information			
General :T	eral :The product is not covered by international regulations on the transport of dangerous good		
11)	MDG, IATA, ADR/RID).		
14.1. UN number : 1	.1. UN number : Not applicable.		



:Not applicable.	
:No transport warning sign required.	
:Not applicable.	
ance/marine pollutant :No.	
:Not applicable.	
o Annex II of MARPOL and the IBC Code	
ex II of MARPOL 73/78 and the IBC Code :Not applicable.	
ion	
ental regulations/legislation specific for the substance or mixture	
:Regulation (EC) No 1272/2008 of the European Parliament and of the Council of	
16December 2008 on classification, labelling and packaging of substances and mixtures	
As amended).	
:Regulation (EC) No 1907/2006 of the European Parliament and of the Council of	
18December 2006 concerning the Registration, Evaluation, Authorisation and Restriction	
Of Chemicals (REACH) (as amended).	
:Workplace Exposure Limits EH40.	

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SECTION 16: Other information			
Key literature references and sources for data : European Chemicals Agency, http://echa.europa.eu/			
	Issued by Regulatory Manager		
Revision	2		
Hazard statements in full	:H226 Flammable liquid and vapour.		
	:H302 Harmful if swallowed.		
	:H304 May be fatal if swallowed and enters airways.		
	:H315 Causes skin irritation.		
	:H317 May cause an allergic skin reaction.		
	:H319 Causes serious eye irritation.		
	:H400 Very toxic to aquatic life.		
	: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.		

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. Page 7 of 7



QUALITY CONTROL DEPARTMENT

SPECIFICATION SHEET CITRAL OIL Date : 30.11.2019

Product

NATURAL OCCURRENCE IN LEMON, ORANGE, ETC; ISOLATED FROM LEMONGRASS OIL.

APPEARANCE CLEAR ,PALE YELLOW LIQUID.(REDISH – YELLOW ON KEEPING).

REF. IND. AT 20° C. I. 486 TO I. 490.

OPT.ROTN. 0° / INACTIVE

ASSAY 96 % MIN. G.C.

BOILING PT. 228° C./ ATM.PR.

SP.GR.AT 25° / 25° C. 0. 885 TO 0.891.

ODOUR STRONG – FRESH, LEMON PEEL LIKE.

FLAVOUR / TASTE BITTERISH, LEMON PEEL LIKE.

SOLUBILITY SOLUBLE IN 1:1 RATIO IN PROPYLENE GLYCOL & MINERAL OIL.

CUSTOMS TERRIF NO. : 3301.29.00.00COUNTRY OF ORIGIN: INDIAIFRANot restricted by IFRA

USES

: FLAVOUR AND FRAGRANCE INDUSTRY, PERFUMERY COMPOUND, SOAPS, CANDLES

IN THE OPINION OF THE UNDERSIGNED THE SAMPLE COLLECTED FROM PRODUCTION UNIT IS COMPLIES WITH ABOVE SPECIFICATIONS/INTERNATIONAL STANDARD QUALITY.