

CERTIFICATE OF ANALYSIS

MATERIAL	RUE OIL
CAS NUMBER	84929-47-5
EINECS NUMBER	284-531-5
BATCH	4543401
BEST BEFORE END	May 2027

Description	Rue essential oil is obtained by steam distillation of the whole plant of Ruta graveolens L. (fam. Rutaceae)
Appearance	Pale yellow to yellow liquid, may crystallise in low temperatures
Odour	Chocolate note, herbaceous, fatty
Optical Rotation @ 20°C	+0.2
Specific Gravity @ 20°C	0.829
Refractive Index @ 20°C	1.4298
Flashpoint	92°C
Solubility	Soluble in ethanol

Storage

To be stored in a cool and dry location. Protect from light.

Measures in case of Fire

Use CO2 foam or dry powder extinguisher.

Caution

Concentrated product for industrial use avoid contact with eyes and mucous. Do not drink.



ALLERGEN LISTING

MATERIAL NAME: RUE OIL

INGREDIENT	CAS No.	MAX
Alpha-Isomethylionone	127-51-5	А
Amyl Cinnamal	122-40-7	А
Amylcinnamyl Alcohol	101-85-9	А
Anise Alcohol	105-13-5	А
Benzyl Alcohol	100-51-6	А
Benzyl Benzoate	120-51-4	А
Benzyl Cinnamate	103-41-3	А
Benzyl Salicylate	118-58-1	А
Butylphenyl Methylpropional (Lilial)	80-54-6	А
Cinnamal	104-55-2	А
Cinnamyl Alcohol	104-54-1	А
Citral	106-26-3	Α
	141-27-5	A
	5392-40-5	А
Citronellol	106-22-9	А
	1117-61-9	Α
	141-25-3	A
	6812-78-8	A
	68916-43-8	A
	7540-51-4	Α
Coumarin	91-64-5	А
Eugenol	97-53-0	А
Evernia Furfuraceae (Tree Moss) Extract	90028-67-4	А
Evernia Prunastri (Oak Moss) Extract	90028-68-5	А
Farnesol	4602-84-0	А
Geraniol	106-24-1	А
Hexyl Cinnamal	101-86-0	А
Hydoxycitronellal	107-75-5	А
Hydroxyisohexyl 3-Cyclohexene Carbocaldehyde (Lyral)	31906-04-4	А
Isoeugenol	97-54-1	А
Limonene	138-86-3	А
	5989-27-5	<0.2%
	5989-54-8	A
Linalool	126-90-9	A
	126-91-0	A
	78-70-6	<0.1%
Methyl 2-Octynoate	111-12-6	А

* A denotes absent

The information contained herein is true and accurate to the best of our knowledge.

We will not therefore accept liability for misuse of this data.



CMR FREE DECLARATION

MATERIAL	RUE OIL

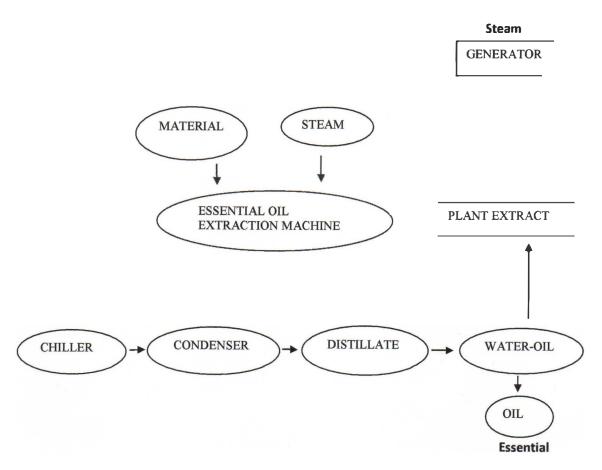
We hereby certify that, to the best of our knowledge and belief, the above product is not classified as CMR (Carcinogenic, Mutagenic or Reprotoxic) chemicals according to the Annex I of the EU Directive 67/548/ECC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging, and labelling of dangerous substances.

10 JULY 2023



FLOW CHART

PRODUCT: RUE OIL





GMO DECLARATION

MATERIAL	RUE OIL

We certify that this material does not contain GMO (Genetically Modified Organism) according to Directive 2001/18/CE or ingredients derived from GMO.

4th JULY 2023



Product Name	RUE OIL SPAIN
CAS Number	84929-47-5
EC Number	284-531-5

We certify that the above compound is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (up to and including IFRA 48th Amendment / published in June 2015), provided that it is used in the following applications (classes) at a maximum concentration level of:

IFRA Class(es) (See Annex for Details)	Max Level of Use (%)
Class 1	20.00
Class 2	20.00
Class 3A	20.00
Class 3B	20.00
Class 3C	20.00
Class 3D	20.00
Class 4A	20.00
Class 4B	20.00
Class 4C	20.00
Class 4D	20.00
Class 5	20.00
Class 6	20.00
Class 7A	20.00
Class 7B	20.00
Class 8A	20.00
Class 8B	20.00
Class 9A	20.00
Class 9B	20.00
Class 9C	20.00
Class 10A	20.00
Class 10B	20.00
Class 11	100.00

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed.



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 the 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, clear or coloured, etc.).	Class 1
Children's Toys.	0.000 1
Deodorant and Antiperspirant Products of all types including any product with intended or	Class 2
reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-on, under-	
arm, deo-cologne and body spray, etc.)	
Nose Pore Strips.	
Fragranced Bracelets.	
Hydroalcoholic Products Applied to Recently Shaved Skin (includes After Shave)	Class 3A
Hydroalcoholic Products 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.	Class 3C
Men's Facial Creams and Balms.	
Baby Creams, Lotions, Oils.	
Body Paint for Children.	
Tampons.	Class 3D
Hydroalcoholic Products applied to unshaved skin (includes aqueous based, alcoholic based	Class 4A
and hydroalcoholic) like Cologne, eau de cologne, Eau de Parfum or Parfum.	
Ingredients or Perfume Kits.	
Scent Pads, Foil Packs.	
Scent Strips for hydroalcoholic products.	
Fine Fragrance – Hydroalcoholic Products applied to unshaved skin (includes aqueous	Class 4B
based, alcoholic based and hydroalcohlic) like Cologne, eau de cologne, Eau de Parfum or	
Parfum.	
Hair Styling Aids, Sprays of all types (pumps, aerosol sprays, etc.) Body Creams, Oils, Lotions of all types (except baby creams, lotions and oils).	Class 4C
Body creams, ons, Lottons of all types (except baby creams, lottons and ons). 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.	

MYSTIC M@MENTS

Dady Dairet (
Body Paint (except those for children).	Class 4D
Fragrancing Cream, Solid Perfumes.	Class 4D
Facial Masks. 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.	Class 5
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 cleansers), Hair Styling Aids Non-Spray of all types (mousse, gels, leave-conditioners, etc.), Nail Care, Powders and talcs, all types (except baby powders and talcs).	Class 8A
Hair Dyes.	Class 8B
Conditioner (Rinse-Off), Liquid Soap, Shampoos of all types (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.	Class 9A
Feminine hygiene – pads, liners, Toilet paper, Wheat bags.	Class 9B
Facial tissues, Napkins, Paper towels, Other Aerosols (including air freshener sprays and air freshener pump sprays, but not including deodorants/antiperspirants, hair styling aids/sprays.	Class 9C
Handwash Laundry Detergents of all types including 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.	Class 10A
Diapers, Toilet seat wipes.	Class 10B
All non-skin contact or incidental skin contact including: Candles, Air Fresheners and Fragrancing of all types (concentrated aerosol with metered doses (range 0.05-0.5ml/spray), plug-ins, solid substrate, membrane delivery, electrical), Air Delivery Systems, Cell Phone Cases, Pot pourri, powders, fragrancing 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 Dishwash Detergent and Deodorisers, 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 11



REVISION: 10.07.2023

1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier:

Trade Name	RUE OIL
EINECS CAS Number	84929-47-5
CAS Number	8014-29-7
EC Number	284-531-5
CoE Number	412
FEMA Number	2995
FDA Number	184.1699
REACH Registration	Exempted < 1T/year

1.2 Relevant Identified Uses of the Substance or Mixture and Uses advised Against:

Relevant Identified Uses	Raw material for industrial use. Cosmetics, Perfumes, Fragrances.
Uses Advised Against	No additional information available.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name	Madar Corporation Limited
Company Address	19 - 20 Sandleheath Industrial Estate
	Fordingbridge, SP6 1PA
Telephone Number	01425 655 555
Email Address	technical@madarcorporation.co.uk

2 Hazards Identification

2.1 Classification of the Substance or Mixture:

Classification according to Regulation (EC) No. 1272/2008 (CLP):

H400	Hazardous to the Aquatic Environment – Acute Hazard,						
	Category 1						
H412	Hazardous to the Aquatic Environment – Chronic Hazard,						
	Category 3						

For full text of Hazard Statements see Section 16.

Adverse Physiochemical, Human	Very toxic to aquatic life. Harmful to aquatic life with long
Health and Environmental Effects	lasting effects.

2.2 Label Elements:

Labelling According to Regulation (EC) No. 1272/208 (CLP):

Hazard Pictograms:



Signal Word	WARNING

REVISION: 10.07.2023

Hazard Statements:					
H410 Very toxic to aquatic life with long lasting effects.					
Precautionary Statements:					
P391 Collect spillage.					
EUH Statements:					
EUH208 Contains d-Limonene. May produce an allergic reaction.					

3 Composition/Information on Ingredients

3.1 Substances:

Substance Type	UVCB
Name	RUE OIL
CAS Number	8014-29-7
EINECS CAS Number	84929-47-5
EC Number	284-531-5

Contains:

Component	Identification Number(s)	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Quantity
2-Undecanone	CAS: 112-12-9	Aquatic Acute 1, H400	≥90%
	EC: 203-937-5		
2-Nananone	CAS: 821-55-6	Eye Irrit. 2, H319	≥1 - <5%
	EC: 212-480-0	Skin Irrit. 2, H315	
2-Tridecanone	CAS: 593-08-8	Aquatic Acute 1, H400	≥1 - <1%
	EC: 209-784-0	Aquatic Chronic 1, H410	
d-Limonene	CAS: 5989-27-5	Asp. Tox. 1, H304	≥0.1 - <1%
	EC: 227-813-5	Aquatic Acute 1, H400	
		Aquatic Chronic 1, H410	
		Flam. Liq. 3, H226	
		Skin Irrit. 2, H315	
		Skin Sens. 1B, H317	

For full text of Hazard Statements see Section 16.

3.2 Mixtures:

Mixtures	Not applicable.

<mark>4 First Aid Measures</mark>

4.1 Description of First Aid Measures:

After Inhalation	Remove person to fresh air and keep comfortable for					
	breathing.					
After Skin Contact	Wash skin with plenty of water.					
After Eye contact	Rinse eyes with water as a precaution.					
After Ingestion	Call a poison centre or a doctor if you feel unwell.					

4.2 Most Important Symptoms and Effects, both Acute and Delayed:

	Important Symptoms and Effects	No additional information available.		
4.3 Indication of Immediate Medical Attention and Special Treatment Needed:				

4.5 indication of infinediate Medical Attention and Special Treatment Necucu.				
Notes for Doctor	Treat symptomatically.			

E Fine fighting Managers							
5 Fire-fighting Measures 5.1 Extinguishing Media:							
Suitable Extinguishing Media Water spray. Dry powder. Foam. Carbon dioxide (CO2).							
2 Special Hazards Arising from the Substance or Mixture:							
Hazardous Decomposition Products in case of Fire	Toxic fumes may be released.						
5.3 Advice for Fire-fighters:	12						
Protection during Firefighting	Do not attempt to take action without suitable protective						
	equipment. Self-contained breathing apparatus.						
	Complete protective clothing.						
6 Accidental Release Measures							
	Equipment and Emergency Procedures:						
For Non-emergency Personnel	Ventilate spillage area.						
For Emergency Responders	Do not attempt to take action without suitable protective						
10. Emergency responders	equipment. For further information refer to Section 8.						
6.2 Environmental Precautions:	- squipment for farther information feler to section 6.						
Environmental Precautions	Avoid release to the environment.						
6.3 Methods and Material for Contain							
For Containment	Collect spillage.						
Methods for Cleaning Up	Take up liquid spill into absorbent material.						
Other Information	Dispose of materials or solid residues at an authorised site.						
6.4 Reference to Other Sections:							
Reference to Other Sections	For further information refer to Section 13.						
Tot fullifier information refer to design 25.							
7 Handling and Storage							
7.1 Precautions for Safe Handling:							
Precautions for Safe Handling Ensure good ventilation of the work station. Wea							
	personal protective equipment.						
Hygiene Measures	Do not eat, drink, or smoke when using this product.						
	Always wash hands after handling the product.						
7.2 Conditions for Safe Storage, inclu	ding any Incompatibilities:						
Storage Conditions	Store in a well-ventilated place. Keep cool.						
7.3 Specific End Use(s):							
Specific End Use(s)	No additional information available.						
8 Exposure Controls/Personal Protect	<mark>ion</mark>						
8.1 Control Parameters:							
Control Parameters	Control Parameters No additional information available.						
8.2 Exposure Controls:							
Appropriate Engineering Controls Ensure good ventilation of the work station.							
Hand Protection	Protective gloves.						
Eye Protection	Safety goggles.						
Skin and Body Protection	Wear suitable protective clothing.						

REVISION: 10.07.2023

Respiratory Protection	In	case	of	insufficient	ventilation,	wear	suitable
	res	pirator	y eq	uipment.			
Personal Protection Equipment Symbol(s)	C						
Environmental Exposure Controls	Avo	Avoid release to the environment.					

9 Physical and Chemical Properties9.1 Information on Basic Physical and Chemical Properties:

,	
Appearance	Pale yellow to yellow liquid.
Odour	Chocolatey, herbaceous, fatty.
Odour Threshold	No data available.
рН	No data available.
Relative Evaporation Rate	No data available.
(Butylacetate = 1)	
Melting Point	Not applicable.
Freezing Point	No data available.
Boiling Point	No data available.
Flash Point	92°C
Auto-ignition Temperature	No data available.
Decomposition Temperature	No data available.
Flammability (Solid, Gas)	Not applicable.
Vapour Pressure	No data available.
Relative Vapour Density @ 20°C	No data available.
Relative Density	0.826 to 0.840
Solubility	No data available.
Partition Coefficient	No data available.
n-octanol/water (Log Pow)	
Viscosity, Kinematic	14 to 20.5 mm ² /s
Viscosity, Dynamic	No data available.
Explosive Properties	No data available.
Oxidising Properties	No data available.
Explosive Limits	No data available.

9.2 Other Information:

Refractive Index	1.428 to 1.436
------------------	----------------

10 Stability and Reactivity

10.1 Reactivity:

Reactivity	The product is non-reactive under normal conditions of
	use, storage, and transport.
10.2 Chemical Stability:	
Chemical Stability	Stable under normal conditions.

10.3 Possibility of Hazardous Reaction	15:
Possibility of Hazardous Reactions	No dangerous reactions known under normal conditions
	of use.
10.4 Conditions to Avoid:	
Conditions to Avoid	None under recommended storage and handling
	conditions (see Section 7).
10.5 Incompatible Materials:	Constitution (coo costicity).
Incompatible Materials	No additional information available.
10.6 Hazardous Decomposition Produ	
Hazardous Decomposition	Under normal conditions of storage and use, hazardous
Products	decomposition products should not be produced.
	accomposition products should not be produced.
11 Toxicological Information	
11.1 Information on Toxicological Effe	ects:
Acute Toxicity (Oral)	Not classified.
Acute Toxicity (Dermal)	Not classified.
Acute Toxicity (Inhalation)	Not classified.
Skin Corrosion/Irritation	Not classified.
Serious Eye Damage/Irritation	Not classified.
Respiratory or Skin Sensitisation	Not classified.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive Toxicity	Not classified.
STOT-single Exposure	Not classified.
STOT-repeated Exposure	Not classified.
Aspiration Hazard	Not classified.
Viscosity, Kinematic	14 to 20.5 mm ² /s
	2.00 200 /0
12 Ecological Information	
12.1 Toxicity:	
Ecology – General	Very toxic to aquatic life. Harmful to aquatic life with long
	lasting effects.
Hazardous to the Aquatic	Very toxic to aquatic life.
Environment, Short-term (Acute)	
Hazardous to the Aquatic	Harmful to aquatic life with long lasting effects.
Environment, Short-term (Chronic)	
Not rapidly degradable.	
12.2 Persistence and Degradability:	
Persistence and Degradability	No additional information available.
12.3 Bioaccumulative Potential:	•
Bioaccumulative Potential	No additional information available.
12.4 Mobility in Soil:	
Mobility in Soil	No additional information available.
•	

	REV	ISION:	10.07.	2023
--	-----	--------	--------	------

Results of PBT Assessment	No additional information available.
Results of vPvB Assessment	No additional information available.
12.6 Other Adverse Effects:	-
Other Adverse Effects	No additional information available.
	-
13 Disposal Considerations	
13.1 Waste Treatment Methods:	
Waste Treatment Methods	Dispose of contents/container in accordance with licensed
	collector's sorting instructions.
14 Transport Information	
14.1 UN Number:	2002
ADR	3082
IMDG	3082
IATA	3082
ADN	3082
RID	3082
14.2 UN Proper Shipping Name:	
ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (2-Undecanone)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (2-Undecanone)
IATA	Environmentally hazardous substance, liquid, n.o.s. (2-
ADNI	Undecanone)
ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
RID	N.O.S. (2-Undecanone)
KID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Undecanone)
Transport Document Description:	N.O.S. (z-offdecarione)
ADR	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
ADN	LIQUID, N.O.S. (2-Undecanone), 9, III
IMDG	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
IMIDA	LIQUID, N.O.S. (2-Undecanone), 9, III
IATA	UN3082 Environmentally hazardous substance, liquid,
IAIA	n.o.s. (2-Undecanone), 9, III
ADN	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
ADN	LIQUID, N.O.S. (2-Undecanone), 9, III
RID	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
MD	LIQUID, N.O.S. (2-Undecanone), 9, III
	LIQUID, N.O.3. (2-UNUCCANUNC), 3, III

14.3 Transport hazard Class(es):	
ADR	9
ADR	1° 40
	9
IMDG	9

	9
IATA	9
	1
	9
ADN	9
	9
RID	9
	9
14.4 Packing Group:	
ADR	III
IMDG	III
IATA	III
ADN	III
RID	III
14.5 Environmental Hazards:	
ADR	Dangerous for the environment: Yes
IMDG	Dangerous for the environment: Yes
LATA	Marine Pollutant: Yes
IATA	Dangerous for the environment: Yes
ADN RID	Dangerous for the environment: Yes
14.6 Special Precautions for User:	Dangerous for the environment: Yes
Overland Transport:	
Classification Code	M6
Special Provisions	274, 335, 375, 601
Limited Quantities	5L
Excepted Quantities	E1
Packing Instructions	P001, IBC03, LP01, R001
Special Packing Provisions	PP1
Mixed Packing Provisions	MP19

Portable Tank and Bulk Container	T4
Instructions	
Portable Tank and Bulk Container	TP1, TP29
Special Provisions	
Tank Code	LGBV
Vehicle for Tank Carriage	AT
Transport Category	3
Special Provisions for Carriage –	V12
Packages	
Special Provisions for Carriage –	CV13
Loading, Unloading, and Handling	
Hazard Identification Number	90
(Kemler No.)	
Tunnel Restriction Code	-
EAC Code	•3Z
Transport by Sea:	
Special Provisions	274, 335, 969
Limited Quantities	5L
Excepted Quantities	E1
Packing Instructions	LP01, P001
Special Packing Provisions	PP1
IBC Packing Instructions	IBC03
Tank Instructions	T4
Tank Special Provisions	TP1, TP29
Ems Number (Fire)	F-A
EmS Number (Spillage)	S-F
Stowage Category	A
Air Transport:	
PCA Excepted Quantities	E1
PCA Limited Quantities	Y964
PCA Limited Quantity Max Net	30KG
Quantity	
PCA Packing Instructions	964
PCA Max Net Quantity	450L
CAO Packing Instructions	964
CAO Max Net Quantity	450L
Special Provisions	A97, A158, A197
ERG Code	9L
Inland Waterway Transport:	
Classification Code	M6
Special Provisions	274, 335, 375, 601
Limited Quantities	5L
Excepted Quantities	E1
Equipment Required	PP
Number of Blue Cones/Lights	0

REVISION: 10.07.2023

Rail Transport:	
Classification Code	M6
Special Provisions	274, 335, 375, 601
Limited Quantities	5L
Excepted Quantities	E1
Packing Instructions	P001, IBC03, LP01, R001
Special Packing Provisions	PP1
Mixed Packing Provisions	MP19
Portable Tank and Bulk Container	T4
Instructions	
Portable Tank and Bulk Container	TP1, TP29
Special Provisions	
Tank Codes for RID Tanks	LGBV
Transport Category	3
Special Provisions for Carriage –	W12
Packages	
Special Provisions for Carriage –	CW13, CW31
Loading, Unloading, and Handling	
Colis Express (Express Parcels)	CE8

14.7 Transport in Bulk according to Annex II of MARPOL and the IBC Code:

90

Transport in Bulk	Not applicable.
-------------------	-----------------

15 Regulatory Information

Hazard Identification Number

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

EU Regulations	No REACH Annex XVII restrictions.
	RUE OIL is not subject to Regulation (EU) No. 649/2012 of
	the European Parliament and of the Council of 4 th July
	2012 concerning the export and import of hazardous
	chemicals.
	RUE OIL is not subject to Regulation (EU) No. 2019/1021
	of the European Parliament and of the Council of 20 th June
	2019 on persistent organic pollutants.

15.2 Chemical Safety Assessment:

|--|

16 Other Information

16.1 Abbreviations and Acronyms:

1011 / Nobi Citations and / Cronyms			
ADN	European Agreement concerning the International Carriage of		
	Dangerous Goods by Inland Waterways.		
ADR	European Agreement concerning the International Carriage of		
	Dangerous Goods by Road.		
ATE	Acute Toxicity Estimate.		
BLV	Biological limit value.		

CAS No.	Chemical Abstract Service Number.	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No.	
	1272/2008.	
DMEL	Derived Minimal Effect Level.	
DNEL	Derived No-Effect Level.	
EC50	Median Effective Concentration.	
EC No.	European Community Number.	
EN	European Standard.	
IATA	International Air Transport Association.	
IMDG	International Maritime Dangerous Goods.	
LC50	Median Lethal Concentration.	
LD50	Median Lethal Dose.	
LOAEL	Lowest Observed Adverse Effect Level.	
NOAEC	No-Observed Adverse Effect Concentration.	
NOAEL	No-Observed Adverse Effect Level.	
NOEC	No-Observed Effect Concentration.	
OEL	Occupational Exposure Limit.	
PBT	Persistent Bioaccumulative Toxic.	
PNEC	Predicted No-Effect Concentration.	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
	Regulation (EC) No. 1907/2006.	
RID	Regulations concerning the International Carriage of Dangerous	
	Goods by Rail.	
SDS	Safety Data Sheet.	
vPvB	Very Persistent and very Bioaccumulative.	
WGK	Water Hazard Class.	
16.2 Full Text of Hazard Statements and EUH Statements:		
·		

Aquatic Acute 1	Hazardous to the Aquatic Environment – Acute Hazard, Category 1.	
Aquatic Chronic 1	Hazardous to the Aquatic Environment – Chronic Hazard, Category 1.	
Aquatic Chronic 3	Hazardous to the Aquatic Environment – Chronic Hazard, Category 3.	
Asp. Tox. 1	Aspiration Hazard, Category 1.	
Eye Irrit. 2	Serious Eye Damage/Eye Irritation, Category 2.	
Flam. Liq. 3	Flammable liquids, Category 3.	
Skin Irrit. 2	Skin Corrosion/Irritation, Category 2.	
Skin Sens. 1B	Skin Sensitisation, Category 1B.	
H226	Flammable liquid and vapour.	
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.	
H412	Harmful to aquatic life with long lasting effects.	
EUH208	Contains d-Limonene. May produce an allergic reaction.	

WARNING/DISCLAIMER: 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.
To this own particular use.



SPECIFICATION

MATERIAL	RUE OIL
ORIGIN	MOROCCO
INCI NAME	RUTA GRAVEOLENS OIL
EINECS CAS NUMBER	84929-47-5
CAS NUMBER	8014-29-7
EC NUMBER	284-531-5
FEMA NUMBER	2995
CoE NUMBER	412
FDA NUMBER	184.1699

Description	Rue essential oil is obtained by steam distillation of the whole plant of Ruta graveolens L. (fam. Rutaceae)
Appearance	Pale yellow to yellow liquid, may crystallise in low temperatures
Odour	Chocolate note, herbaceous, fatty
Optical Rotation @ 20°C	-2.0 to +3.0
Specific Gravity @ 20°C	0.826 to 0.840
Refractive Index @ 20°C	1.428 to 1.436
Flashpoint	92°C
Solubility	Soluble in ethanol

Shelf Life 36 Months

After this delay, the quality must be checked.

Storage

Original unopened container, at ambient temperature, under dry conditions and away from light. The shelf life is not valid out of the mentioned conditions.

Handling

According to IFRA Code of Practice.

Caution

Concentrated product for industrial use avoid contact with eyes and mucous. Do not drink.

This information contained in this data sheet is to the best of our knowledge, including the data supplied by our suppliers, current at the mentioned date and remain the property of the issuer. Alteration can result of improper transport and/or storage. The certificate does not release the user from the responsibility of undertaking his own tests of conditions and suitability in the intended uses with regard to the current legal and statutory measures.



TECHNICAL DATA SHEET RUE OIL

TECHNICAL PROPERTIES ANALYTICAL SPECIFICATION

Specific gravity D 20/20 : 0,820 - 0,960

OLFACTIVE NOTE : Characteristic

COLOR AND APPEARANCE yellow- orange, transparent liquid

STORAGE

To be stored at room temperature, in a dry place in tightly - closed containers preferably full. Protect from light. When stored for more than months, quality should be checked before use.

HANDLING

According to IFRA CODE of practice

RECOMMENDED USES:

Multi uses.

CAUTION

Concentrated product for industrial use avoid contact with eyes and mucous. Do not drink.

NOTE

This data is based on information believed to be reliable. The values were determined immediately after manufacture of the product. Alterations can result due to improper transport and/or improper storage. The certificate does not release the user from the responsibility of undertaking his own tests of the characteristics of the product and its suitability in the intended application.



VEGAN & VEGETARIAN STATEMENT

MATERIAL	RUE OIL
MAILINAL	NOL OIL

To the best of our knowledge from the currently existing information in our files received from our suppliers, we certify that no animal products or by-products are used as raw materials and/or processing aid in the manufacturing of this material.

4 JULY 2023