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Safety Data Sheet

Organic Lime Essential Oil (*Citrus aurantifolia*)

according to 1907/2006/EC, Article 31, amended by
Regulation (EU) No. 453/2010

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Printing date 02.02.2016

Revision no. 5

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

1.1 Product identifier

Trade name: **Lime Oil Cold Pressed Organic**

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture *Cosmetic Ingredient/flavour*

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

NHR Organic Oils
24 Chatham Place,
Brighton, BN1 3TN,
UK

E mail: info@nhrorganicoils.com

1.4 Emergency telephone number:

MULTI LINGUAL EMERGENCY NUMBER (Carechem 24*7)

EUROPE : + 33 (0) 1 44 73 10 02 "

For China: + 86 1051003039

For India: +65 31581198

For advice on chemical emergencies, spillages, fires or First Aid

National emergency telephone number :

Czech Republic: *Toxikologické informační středisko (TIS), Klinika nemocí z povolání, Na Bojišti 1, 128 08 Praha 2, Tel – nonstop: + 420 224 919 293, + 420 224 915 402*

France : *Orfila 01.45.42.59.59*

Netherlands: *National vergiftigingen info centrum: 030-2748888 (uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen.)*

Denmark *Giftlinien +45 82 12 12 12*

Sverige *+46 08-33 12 31*

Norge *Giftcentralen +47 22 59 13 00*

Schweizerisches *Toxikologisches Informationszentrum Telefon +41 145*

Finland: *Myrkytystietokeskus, puh. 09-471977 tai 09-4711/Myrkytystietokeskus*

Vergiftungsinformationszentrale Wien *Telefon +43 1 4064343*

Romania: *BIROUL PT REGULAMENTUL SANITAR INTERNATIONAL SI INFORMARE TOXICOLOGICA: +4021 318 36 06*

Serbia - *Nacionalni centar za kontrolu trovanja: + 381 11 266 11 22*

Turkey - *Acil Sağlık Hizmetleri Genel Müdürlüğü: 114*

Hungary - *Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ), H-1096 Budapest, Nagyvárad tér 2: +36 80 20 11 99 (Magyarországon ingyenesen hívható)*

Croatia - *Broj telefona službe za izvanredna stanja: 112*

Greece - *ΤΗΛ. ΚΕΝΤΡΟΥ ΔΗΛΗΤΗΡΙΑΣΕΩΝ : 210-77.93.777*

SLOVAKIA *Núdzové telefónne číslo: Národné toxikologické informačné centrum, tel: 02/ 5477 4166*

Russia - *ФГБУ "Научно-практический токсикологический центр ФМБА" России. Адрес: 129090, г. Москва, пл. Большая Сухаревская, д 3, стр. 7. Тел. +7-495-6281687 / +7-495-6216885. Рекомендуется дополнительно консультация скорой помощи!*

BULGARIA - *Национален токсикологичен информационен център, Многопрофилна болниц а за активно лечение и спешна медицина "Н.И.Пирогов" Телефон за спешни случаи / факс: +359 2 9154 409, E-mail: poison_centre@mail.orbitel.bg*

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UKRAINE - National Toxicology Center, Clinical Emergency Hospital (toxicology department), 3
 Bratislavskaya str., Kyiv, Ukraine. Tel./ Fax: +38 044 527-69-81

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
 The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07 GHS08 GHS09

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**
Lime (Citrus aurantifolia), ext
- **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.
H410 Very toxic to aquatic life with long lasting effects.

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· **Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**





- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Description:** Mixture

· **Dangerous components:**

CAS: 90063-52-8	Lime (<i>Citrus aurantifolia</i>), ext	> 95%
EINECS: 290-010-3	 Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Irrit. 2, H315; Skin Sens. 1, H317	

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:** Seek medical treatment in case of complaints.

· **After inhalation:**

Remove victim from source of exposure.
 General first aid, rest, warmth and fresh air.
 Place unconscious person on the side in the recovery position and ensure breathing.
 Seek medical treatment in case of complaints.

· **After skin contact:**

Remove contaminated clothing.
 After contact with the skin, wash immediately with plenty of soap and water.
 If skin irritation continues, consult a doctor.

· **After eye contact:**

Remove contact lenses.
 Promptly wash eyes with plenty of water while lifting the eye lids.
 At least 15 minutes
 Seek immediate medical advice.

· **After swallowing:**

Call a doctor immediately.
 Immediately rinse out mouth and then drink plenty of water.

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Keep the patient under observation.

Do not induce vomiting.

Immediately go to a hospital.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

Alcohol resistant foam

Carbon dioxide

Dry Chemical Powder

Dry sand

· **5.2 Special hazards arising from the substance or mixture**

Emits toxic fumes under fire conditions.

· **5.3 Advice for firefighters**

· **Protective equipment:**

In the event of fire and/or explosion do not breathe fumes.

Wear self-contained respiratory protective device.

Wear fully protective suit.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid contact with skin and eyes.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Dam up the solid spills.

Soak up with inert absorbent material (e.g. sand, silica gel, universal binder, sawdust).

Dispose of the material collected according to regulations.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Usual safety precautions should be observed to ensure safe handling.

Ensure good ventilation/exhaustion at the workplace.

Avoid spillage.

Keep away from heat and open flame.

Avoid contact with eyes and skin.

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- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Keep in cool and well ventilated place.
- **Information about storage in one common storage facility:**
Store separated from:
Strong oxidizing agents.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** Flammable liquid storage.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:**
Use engineering controls to reduce air contamination.
This is based on data that was valid at the time of writing.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Local exhaust ventilation required.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Eyewash and safety shower facilities should be available when handling this product.
- **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
NIOSH or European Standard EN 149 approved respirator
- **Protection of hands:**



Protective gloves.

DIN/EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**

Safety glasses

(EN 166)

· **Body protection:** Wear suitable protective clothing.**SECTION 9: Physical and chemical properties**· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· Form:	Liquid
· Colour:	Colourless to pale yellow
· Odour:	Characteristic
· Odour threshold:	Not determined.

· **pH-value:** Not determined.· **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.

· **Flash point:** < 50 °C (Closed cup)· **Flammability (solid, gaseous):** Not applicable.· **Ignition temperature:**· **Decomposition temperature:** Undetermined.· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Not determined.· **Explosion limits:**

· Lower:	Not determined.
· Upper:	Not determined.

· **Vapour pressure:** Not determined.· **Density:** Not determined.· **Relative density at 20 °C** 0.83 - 0.86· **Vapour density** Not determined.· **Evaporation rate** Not determined.· **Solubility in / Miscibility with**· **water:** Not miscible or difficult to mix.· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:**· **Dynamic:** Not determined.· **Kinematic:** Not determined.

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- | | |
|--|--|
| <ul style="list-style-type: none"> · 9.2 Other information · Refractive index: | <p>No further relevant information available.</p> <p>1.470 - 1.490</p> |
|--|--|

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Stable under recommended storage and handling conditions (See section 7).
- **10.3 Possibility of hazardous reactions** Hazard Polymerization: will not occur.
- **10.4 Conditions to avoid** Avoid heat and sources of ignition.
- **10.5 Incompatible materials:** Strong oxidizers.
- **10.6 Hazardous decomposition products:**
Fire or high temperatures create:
Toxic gases and vapours
Carbon monoxide
Carbon dioxide
Nitrogen oxides (NOx)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation** May cause irritation to eyes.
- **ingestion:** May be fatal if swallowed and enters airways.
- **inhalation:** Vapour could irritate respiratory system or lungs.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

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SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Biodegradable
- **12.3 Bioaccumulative potential**
Bioaccumulation is unlikely to be significant because of the low water solubility of this product.
- **12.4 Mobility in soil** Product is insoluble in water.
- **Additional ecological information:**
- **General notes:**
WGK - 3
Very toxic to aquatic life with long lasting effects.
Avoid transfer into the environment.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.


SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Dispose of in accordance with Local Authority requirements.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|--|
| · 14.1 UN-Number
· ADR, IMDG, IATA | UN1993 |
| · 14.2 UN proper shipping name
· ADR

· IMDG

· IATA | 1993 FLAMMABLE LIQUID, N.O.S. (Lime (Citrus aurantifolia), ext), ENVIRONMENTALLY HAZARDOUS, special provision 640E
FLAMMABLE LIQUID, N.O.S. (Lime (Citrus aurantifolia), ext), MARINE POLLUTANT
Flammable liquid, n.o.s. (Lime (Citrus aurantifolia), ext) |
| · 14.3 Transport hazard class(es)
· ADR, IMDG | |
|  | |
| · Class | 3 Flammable liquids. |

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· Label	3
· IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: Lime (<i>Citrus aurantifolia</i>), ext
· Marine pollutant:	Yes
	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	30
· EMS Number:	F-E,S-E
· Stowage Category	A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640E (LIME (CITRUS AURANTIFOLIA), EXT), 3, III, ENVIRONMENTALLY HAZARDOUS

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard statements** Please refer section 2.
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
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.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
- *** Data compared to the previous version altered.**

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