



24 CHATHAM PLACE, BRIGHTON BN1 3TN (UK)
TEL.(UK) 0845 310 8066 FAX.(UK) 0845 310 8068
International Tel. +44 1273 746505 Int. Fax. +44 1273 202729
EMAIL: info@nhrorganicoils.com Web Site: www.nhrorganicoils.com

Material Safety Data Sheet

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

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

- **1.1 Product identifier**
- **Trade name:** Blanova Lemon Oil Cold Pressed Organic
- **Article number:** 162378
- **EC number:**
284-515-8
- **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*
-
- **1.3 Emergency telephone number:**

(Contd. on page 2)
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+ 33 (0) 1 44 73 10 02 (Carechem 24*7)

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 vergiftigen info centrum: 030-2748888 (uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigen.)

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 - Health Toxicological Information Service, H-1096 Budapest, Nagyvárad tér 2: +36 80 20 11 99 (free of charge within Hungary)

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 - Toxicological Information Centre: 8 (495) 621-68-85; 8 (495) 621-68-85

BULGARIA - Национален токсикологичен информационен център, Многопрофилна болница 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

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.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.

Xi; Irritant

R38: Irritating to skin.

Xi; Sensitising

R43: May cause sensitisation by skin contact.

N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10: Flammable.

· **Information concerning particular hazards for human and environment:**

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

· **Classification system:**

The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02 GHS07 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Lemon oil

INCI name: CITRUS MEDICA LIMONUM
EXTRACT

· **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.

- **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.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P240 Ground/bond container and receiving equipment.
- P233 Keep container tightly closed.
- P242 Use only non-sparking tools.
- P273 Avoid release to the environment.
- P243 Take precautionary measures against static discharge.
- P264 Wash thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- 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.
- P362 Take off contaminated clothing.
- P363 Wash contaminated clothing before reuse.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P331 Do NOT induce vomiting.
- P302+P352 IF ON SKIN: Wash with plenty of water/...
- P391 Collect spillage.
- P405 Store locked up.
- P403+P235 Store in a well-ventilated place. Keep cool.
- 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

- **3.1 Chemical characterization: Substances**









- **CAS No. Description**

84929-31-7

- **Identification number(s)**

- **EC number:** 284-515-8

- **Dangerous components:**

CAS: 84929-31-7 EINECS: 284-515-8	Lemon oil INCI name: CITRUS MEDICA LIMONUM EXTRACT  Xn R65  Xi R38  Xi R43  N R50/53 R10  Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Irrit. 2, H315; Skin Sens. 1, H317	>95%
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- **Additional information:** For the wording of the listed risk 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 immediately from source of exposure.
 - General first aid, rest, warmth and fresh air.
 - Supply fresh air or oxygen; call for doctor.
 - Place unconscious person on the side in the recovery position and ensure breathing.
- **After skin contact:**
 - Remove contaminated clothing.
 - Immediately wash with water and soap and rinse thoroughly.
 - If skin irritation continues, consult a doctor.
- **After eye contact:**
 - Remove contact lenses.
 - Immediately flush eyes with plenty of water by lifting eye lids for atleast 20-30 minutes
 - Seek immediate medical advice.
 - Continue to rinse.
- **After swallowing:**
 - Call a doctor immediately.
 - Immediately rinse out mouth and then drink plenty of water.
 - Keep the patient under observation.
 - Do not induce vomiting.
 - If vomiting occurs keep head low.
- **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:**
 - Carbon dioxide
 - Dry Chemical Powder
 - Alcohol resistant foam
 - Dry sand
- **5.2 Special hazards arising from the substance or mixture**
 - Emits toxic fumes under fire conditions.
 - In case of fire, the following can be released:
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Nitrogen oxides (NO_x)
- **5.3 Advice for firefighters**
- **Protective equipment:**
 - Avoid breathing the product and contact with eyes and skin.
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.

SECTION 6: Accidental release measures

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

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Avoid contact with eyes and skin

Avoid breathing vapours.

Keep away from ignition sources.

Immediately remove any clothing soiled by the product.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

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

Use inert absorbent material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc.) to soak up leaked product.

Send for recovery or disposal in suitable receptacles.

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**

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with eyes and skin.

Avoid breathing vapor/aerosol/mist.

Ensure good ventilation/exhaustion at the workplace.

Eye wash facilities and emergency shower must be available when handling this product.

Wash hands before breaks and at the end of work.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Keep away from heat, sparks and open flame.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Keep in cool, dry, ventilated storage and closed containers.

· **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:**

This is based on data that was valid at the time of writing.
Use engineering controls to reduce air contamination.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.
Ensure adequate ventilation.
Wash hands before breaks and at the end of work.
Remove and wash contaminated clothing before re-use.
Do not eat, drink or smoke while working.

Eyewash and safety shower facilities should be available when handling this product.

· **Respiratory protection:**



Certified respiratory protective device recommended.

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.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **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.

· **Eye protection:**



Safety glasses

(EN 166)

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Coloured liquid

· Colour:	Yellow-green
· Odour:	Lemon
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	170-176 °C
· Flash point:	57 °C (Closed Cup)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Undetermined.
· Self-igniting:	Not determined.
· Danger of explosion:	Not determined.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 25 °C:	0.95 mmHg
· Density:	Not determined.
· Relative density	0.847-0.865
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Slightly soluble in water.
· Partition coefficient (n-octanol/water):	5.63 log KOW (est.)
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· 9.2 Other information	No further relevant information available.
· Refractive index:	1.470-1.476

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Stable under normal conditions.
- **10.3 Possibility of hazardous reactions** Hazard Polymerization: will not occur.
- **10.4 Conditions to avoid** Avoid heat, flame and other sources of ignition.
- **10.5 Incompatible materials:** Strong oxidizing agents
- **10.6 Hazardous decomposition products:**
Fire or high temperatures create:
Carbon monoxide (CO) and carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

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

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

- **Primary irritant effect:**
- **on the skin:** Irritating to skin
- **on the eye:** Irritating effect.
- **ingestion:**
Harmful if swallowed.
May be fatal if swallowed and enters airways.
- **inhalation:** May cause respiratory tract irritation
- **Sensitization:** Sensitization possible through skin contact.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

Very toxic to aquatic organisms.

LC 50, 96 Hrs, Fish mg/l For d-Limonene 0.7; For b-Pinene 0.5

EC 50, 48 Hrs, Daphnia, mg/l For d-limonene 0.7; For b-Pinene 1.25

IC 50, 72 Hrs, Algae, mg/l For b-pinene 1.44

Log Kow	5.63 (-) (est)
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- **12.2 Persistence and degradability** The product is not readily biodegradable.
- **12.3 Bioaccumulative potential** The product will not bio-accumulate
- **12.4 Mobility in soil**
Product is insoluble in water. Product will spread on water surface.
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (German Regulation): extremely hazardous for water
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.

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SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA 	UN1993
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA 	1993 FLAMMABLE LIQUID, N.O.S. (Lemon oil INCI name: CITRUS MEDICA LIMONUM EXTRACT), ENVIRONMENTALLY HAZARDOUS, special provision 640E FLAMMABLE LIQUID, N.O.S. (Lemon oil INCI name: CITRUS MEDICA LIMONUM EXTRACT), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (Lemon oil INCI name: CITRUS MEDICA LIMONUM EXTRACT)
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG 	
	
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids. 3
<ul style="list-style-type: none"> · IATA 	
	
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids. 3
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	III
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): 	Product contains environmentally hazardous substances: Lemon oil INCI name: CITRUS MEDICA LIMONUM EXTRACT Yes Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> · 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: 	Warning: Flammable liquids. 30 F-E,S-E
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: 	Not dangerous according to the above specifications.
<ul style="list-style-type: none"> · ADR · Limited quantities (LQ) 	5L



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· Transport category	2
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S. (Lemon oil INCI name: CITRUS MEDICA LIMONUM EXTRACT), special provision 640E, ENVIRONMENTALLY HAZARDOUS, 3, III

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.
- **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.*
R10 *Flammable.*
R38 *Irritating to skin.*
R43 *May cause sensitisation by skin contact.*
R50/53 *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
R65 *Harmful: may cause lung damage if swallowed.*
- **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 Harmonized 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*
- *** Data compared to the previous version altered.**

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