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1 . PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME :	Mandarin Oil Green P&N
REACH REGISTRATION NUMBER :	
TYPE OF PRODUCT :	Essential Oil
CHEMICAL NAME :	Citrus reticulata Blanco var. mandarine
CAS NUMBER :	8008-31-9
EINECS NUMBER :	284-521-0
CAS EINECS :	84929-38-4
FEMA NUMBER :	2657
INCI NAME :	CITRUS NOBILIS OIL
IDENTIFICATION OF USAGE :	Industrial
SUPPLIER :	BONTOUX, Inc. 21 Progress 08820 Edison, New Jersey United States of America Ph: 908-755-4800 Fax : 908-755-4844 24 hours emergency telephone number (CHEMTREC) : 800-424-9300

2. HAZARDS IDENTIFICATIONS

CLASSIFICATION ACCORDING TO GHS REGULATION :

Physical hazard : FL 3
 Health Hazards : AH 1,REP 2,SCI 2,SS 1B
 Environmental Hazards : EH-A 1,EH-C 1



WORDS OF WARNING:
 PARTICULAR RISKS :

DANGER

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.
 H361 Suspected of damaging fertility or the unborn child.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.



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PRECAUTIONARY STATEMENT
PREVENTION :

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, sparks, open flames or hot surfaces. – No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical, ventilating, lighting, communication, equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust, fume, gas, mist, vapours, spray.
- P264 Wash parts in contact thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing, eye protection, face protection.
- P281 Use personal protective equipment as required.

PRECAUTIONARY STATEMENT
RESPONSE :

- P301+P310 IF SWALLOWED : Immediately call a POISON CENTER or doctor/physician.
- P302+P352 IF ON SKIN : Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.
- P308+P313 IF exposed or concerned : Get medical advice.
- P321 Specific treatment.
- P331 Do NOT induce vomiting.
- P332+P313 If skin irritation occurs : Get medical advice.
- P333+P313 If skin irritation or rash occurs : Get medical advice.
- P362 Take off contaminated clothing and wash before reuse.
- P363 Wash contaminated clothing before reuse.
- P370+P378 In case of fire : Use CO2 foam, dry chemical for extinction.
- P391 Collect spillage.

PRECAUTIONARY STATEMENT
STORAGE :

- P403+P235 Store in well-ventilated place. Keep cool.
- P405 Store locked up.

PRECAUTIONARY STATEMENT
DISPOSAL :

- P501 Dispose of contents and/or container in accordance with local, regional, national and/or international regulation.

PARTICULAR MENTION :

Not available.

OTHERS :

Not available.

LIMITS OF EXPOSURE :

Not available.



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3. COMPOSITION INFORMATION

INGREDIENT CONTRIBUTING TO THE HAZARD	CONTENT
Limonene (CAS : 138-86-3) 1999/45/CE : N;XN;R10;R38;R43;R50/53;R65;S02;S24;S37;S60;S61;S62 GHS : AH 1, EH-A 1, EH-C 1, FL 3, SCI 2, SS 1B	<78%V/V
Gamma terpinene (CAS : 99-85-4) 1999/45/CE : Xn;R10;R65;S62 GHS : AH 1, ATO 5 (3,850), FL 3, REP 2, SCI 3	~ 15 %V/V
Pinenes (CAS : 80-56-8(alpha)+127-91-3(beta)) 1999/45/CE : N;XI;XN;R10;R38;R43;R50/53;R65;S24;S36/37;S62 GHS : AH 1, ATO 4 (500), EH-A 1, EH-C 1, FL 3, SCI 2, SS 1B	<5%V/V
Myrcene (CAS : 123-35-3) 1999/45/CE : XN;R10;R38;R65;S62 GHS : AH 1, EDI 2A, EH-A 1, EH-C 2, FL 3, SCI 2	<4%V/V
Terpinolene (CAS : 586-62-9) 1999/45/CE : N;Xn;R43;R50/53;R65;S24;S37;S57;S60;S61;S62 GHS : AH 1, ATO 5 (3,775), EH-A 1, EH-C 1, FL 4, SCI 3, SS 1B	~ 1 %V/V
Para cymene (CAS : 99-87-6) GHS : AH 1, ATO 5 (4,750), EH-A 2, EH-C 2, FL 3, REP 2, SCI 3	~ 1 %V/V

4. FIRST-AID MEASURES

INGESTION :	Do not try to vomit. Rinse mouth. Consult a doctor.
EYE CONTACT :	Wash immediately and abundantly the eyes with a good running water at low pressure. Consult an ophthalmologist.
SKIN CONTACT :	Sprinkle abundantly with water during at least 15 minutes.
INHALATION :	Remove victim to fresh air

5. FIRE FIGHTING

EXTINGUISHING MEDIA :	<i>SUITABLE</i> :	CO2 foam, dry chemical.
	<i>NON SUITABLE</i> :	Water.
SPECIFIC METHODS OF FIRE FIGHTING :	None.	
SPECIAL EQUIPMENT FOR THE PROTECTION OF FIRE FIGHTERS :	No.	

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS :	Avoid all contact with eyes and mucous.
ENVIRONNEMENTAL PRECAUTIONS :	Don't throw it in sewer nor in natural environment.
METHODS FOR CLEANING-UP :	Recover in a tight container. Wash with plenty of water after complete elimination of the product.

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7. HANDLING AND STORAGE

HANDLING : Avoid contact with eyes and mucous.
 STORAGE : Keep away from humidity in a fresh place. Keep container closed after using.
 OTHER : See Section 8.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION : Assure a good ventilation of work place.
 HAND PROTECTION : Plastic or synthetic rubber impermeable gloves.
 EYE PROTECTION : Goggles giving complete protection to eyes. Eyewash bottle with clean water.
 SKIN AND BODY PROTECTION : Clothes for chemical protection to avoid contact.
 INGESTION : Do not eat, drink and smoke while using
 INDUSTRIAL HYGIENE : Provide an extraction or global ventilation of the work place to reduce concentrations of the steams.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM : Liquid
 COLOR : Green or yellow to dark orange
 ODOR : Fresh orange mandarin
 ODOR THRESHOLD : Data not found
 pH : Data not found
 MELTING POINT : Data not found
 BOILING POINT : Data not found
 FLASHPOINT (closed cup) : 49 °C / 120.2 °F
 EVAPORATION RATE: Data not found
 FLAMMABILITY : Data not found
 EXPLOSIVE LIMITS : Data not found
 VAPOR PRESSURE : Data not found
 VAPOR DENSITY : Data not found
 SPECIFIC GRAVITY : 0.850
 SOLUBILITY IN WATER : Insoluble
 Log K (n-octanol/water) : Data not found
 AUTOIGNITION TEMP. : Data not found
 DECOMPOSITION TEMP. : Data not found
 VISCOSITY : Data not found
 EXPLOSIVE PROPRIETIES: Data not found
 OXIDIZING PROPRIETIES: Data not found
 OTHER DATA : Data not found

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10. STABILITY AND REACTIVITY

REACTIVITY :	No data available.
CHEMICAL STABILITY :	No data available.
POSSIBILITY OF HAZARDOUS REACTION :	None in normal conditions.
CONDITIONS TO AVOID :	Excessive heat.
INCOMPATIBLE MATERIALS:	Strongly oxidising and reducing agents.
HAZARDOUS DECOMPOSITION PRODUCTS :	None in normal conditions.
OTHERS :	None.

11. TOXICOLOGICAL INFORMATION

INGESTION :	Can be noxious.
SKIN CONTACT	Can induce irritations.
EYE CONTACT :	Can induce irritations.
INHALATION :	No specific hazard in normal use.
ASPIRATION :	Aspiration hazard
SPECIFIC EFFECTS :	No information available.

12. ECOLOGICAL INFORMATION

TOXICITY :	See Section 2
PERSISTENCE / DEGRADABILITY :	No information available.
BIOACCUMULATION POTENTIAL :	No information available.
RESULTS OF PBT AND vPvB ASSESSMENT :	No information available.
MOBILITY IN SOIL :	No information available.
WGK :	2
OTHER ADVERSE EFFECTS :	Not known.

13. DISPOSAL CONSIDERATION

To comply with the regulations and prefectural orders in use.
Throwing out forbidden. Packaging must be well emptied

14. TRANSPORT INFORMATION MEASURES

RID / ADR

CLASS :	3
SUBSIDIARY RISK :	
UN NUMBER :	UN 1169



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PACKING GROUP : III
 TUNNEL CODE : (D/E)

IMCO / IMDG

CLASS : 3
 SUBSIDIARY RISK :
 UN NUMBER : UN 1169
 PACKING GROUP : III
 EmFS : F-E, S-D

OACI / IATA

CLASS : 3
 SUBSIDIARY RISK :
 UN NUMBER : UN 1169
 PACKING GROUP : III
 TRAVELLER AIRPLANE PACKING INSTRUCTION : 355
 TRAVELLER AIRPLANE MAXIMUM QUANTITY : 60 L
 CARGO AIRPLANE PACKING INSTRUCTION : 366
 CARGO AIRPLANE MAXIMUM QUANTITY : 220 L

Labelling according to RID / ADR, IMCO / IMDG, OACI / IATA

SHIPPING NAME : UN 1169 EXTRACTS, AROMATIC, LIQUID




ENVIRONMENTALLY HAZARDOUS

15. REGULATORY INFORMATION

LABELLING ACCORDING TO GHS REGULATION :

Physical hazard : FL 3
 Health Hazards : AH 1, REP 2, SCI 2, SS 1B
 Environmental Hazards : EH-A 1, EH-C 1

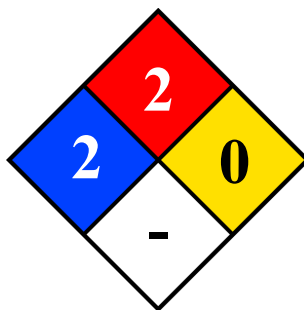


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WORDS OF WARNING:	DANGER
PARTICULAR RISKS :	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
PRECAUTIONARY STATEMENT PREVENTION :	P273 Avoid release to the environment. P280 Wear protective gloves, protective clothing, eye protection, face protection.
PRECAUTIONARY STATEMENT RESPONSE :	P301+P310 IF SWALLOWED : Immediately call a POISON CENTER or doctor/physician. P303+P361+P353 IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.
PRECAUTIONARY STATEMENT STORAGE :	P403+P235 Store in well-ventilated place. Keep cool.
PRECAUTIONARY STATEMENT DISPOSAL :	P501 Dispose of contents and/or container in accordance with local, regional, national and/or international regulation.
PARTICULAR MENTION :	Not available.
OTHERS :	Not available.
LIMITS OF EXPOSURE :	Not available.

OTHER CLASSIFICATIONS :

DOT CLASSIFICATION : -
 NFPA CLASSIFICATION :



NIOSH :	Not available
THRESHOLD LIMIT VALUE - TLV :	Not available
OSHA PERMISSIBLE EXPOSURE LIMIT - PEL :	Not available
IAS THE SUBSTANCE BEEN LISTED AS CARCINOGEN :	Not available
SARA 313 :	Not available

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16. OTHER INFORMATION

OTHER INVENTORIES

Country	Nom inventaire	Datas	Number
AUSTRALIA	AICS	Listé	
EUROPE	COE	Listé	142n
CANADA	DSL	Listé	
TAIWAN	ECN	Listé	
JAPAN	ENCS	Listé	
USA	FDA	Listé	182.20
CHINA	IECSC	Listé	21216
SOUTH KOREA	KECI	Listé	KE-27033
NEW ZEALAND	NZIoC	Listé	
THE PHILIPPINES	PICCS	Listé	
USA	TSCA	Listé	

The content and format of this safety data sheet are in accordance with EC Regulation No. 1907/2006 of the European Parliament and Council

Respect safety measures usually applied during the production of perfumery products.

This data sheet completes the technical use notice, but doesn't replace it. These information are based on our actual knowledge for the above mentioned product at the edition date of this data sheet. They are given in good faith.

In any case user is not exempted to know and apply all texts which regulate this activity. He will take under his own responsibility the precautions for the utilisation of product he knows. Users should be aware of the other purposes than those for which it is concerned.