

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/01/2018

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: Mandarin Oil	
CAS-No.	: N/A	
Product code	: 114	
Synonyms	: Citrus deliciosa	
1.2. Recommended use and restr	led use and restrictions on use	
No additional information available		
1.3. Supplier		
Appalachian Valley Natural Products 260 Maple St PO Box 515 Friendsville MD 21531 (301)746-4630 GOAVNP.COM		

#### 1.4. **Emergency telephone number**

Emergency number

: ChemTel: 1-800-255-3924 (Domestic) 1-813-248-0585 (International)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Flammable liquids Category 3	H226	Flammable liquid and vapour
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Aspiration hazard Category 1	H304	May be fatal if swallowed and enters airways
Hazardous to the aquatic environment - Acute Hazard Category 1	H400	Very toxic to aquatic life
Hazardous to the aquatic environment - Chronic Hazard Category 1	H410	Very toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

#### GHS Label elements, including precautionary statements 2.2.

#### **GHS-US** labeling

Hazard pictograms (GHS-US)

Hazard pictograms (GHS-US)	
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	<ul> <li>H226 - Flammable liquid and vapour</li> <li>H304 - May be fatal if swallowed and enters airways</li> <li>H315 - Causes skin irritation</li> <li>H317 - May cause an allergic skin reaction</li> <li>H400 - Very toxic to aquatic life</li> <li>H410 - Very toxic to aquatic life with long lasting effects</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking.</li> <li>P233 - Keep container tightly closed.</li> <li>P240 - Ground/Bond container and receiving equipment</li> <li>P241 - Use explosion-proof electrical/ventilating/lighting equipment</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.</li> </ul>
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P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing must not be allowed out of the workplace 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 or doctor P302+P352 - If on skin: Wash with plenty of water P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P321 - Specific treatment (see supplemental first aid instruction on this label) P331 - Do NOT induce vomiting. P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P363 - Wash contaminated clothing before reuse. P370+P378 - In case of fire: Use media other than water to extinguish. P391 - Collect spillage. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards which do not result in classification

#### No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

#### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Name	Product identifier	%	GHS-US classification
Mandarin Oil (Main constituent)	(CAS-No.) N/A	100	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable		
SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures general : Call a physician immediately.		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact : Rinse eyes with water as a precaution.		
First-aid measures after ingestion : Do NOT induce vomiting. Call a physician immediately.		
4.2. Most important symptoms and effect	ts (acute and delayed)	
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.	
Symptoms/effects after ingestion	: Risk of lung edema.	

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1.	Suitable (and unsuitable) extinguishing media		
Suitable	extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2.	Specific hazards arising from the cher	mical	
Fire hazard		: Flammable liquid and vapour.	
Reactivi	ty	: Flammable liquid and vapour.	

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5.3. Special protective equipment and precautions for fire-fighters				
Protec		: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
SECT	ION 6: Accidental release measu			
6.1.	Personal precautions, protective equip			
6.1.1.				
	For non-emergency personnel gency procedures	: Ventilate spillage area. NO open flames, NO sparks, and NO smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.		
6.1.2.	For emergency responders			
Protec	ctive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2.	Environmental precautions			
Avoid re	elease to the environment.			
6.3.	Methods and material for containment	and cleaning up		
	ontainment	: Collect spillage.		
Metho	ods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.		
Other	information	: Dispose of materials or solid residues at an authorized site.		
6.4.	Reference to other sections			
For furt	her information refer to section 8 : Exposure	-controls/personal protection"".		
SECT	ION 7: Handling and storage			
7.1.	Precautions for safe handling			
Preca	utions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.		
Hygie	ne measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2.	Conditions for safe storage, including	any incompatibilities		
Techn	ical measures	: Ground/bond container and receiving equipment.		
Storaç	ge conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.		
SECT	ION 8: Exposure controls/persor	al protection		
8.1. No add	8.1. Control parameters No additional information available			
8.2.	Appropriate engineering controls			
	priate engineering controls	: Ensure good ventilation of the work station.		
Enviro	onmental exposure controls	: Avoid release to the environment.		
8.3. Individual protection measures/Personal protective equipment				
Hand protection:				
Protec	Protective gloves			
Eye p	Eye protection:			
Safety	Safety glasses			
Skin a	Skin and body protection:			
Wear	Wear suitable protective clothing			

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### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Mobile Liquid
Color	: Semi-Opaque, Yellow to Orange
Odor	: Citrus, Sweet, Zesty
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 47 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
I0.1. Reactivity			
Flammable liquid and vapour.			
D.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reactions			
No dangerous reactions known under normal conditions of use.			
10.4. Conditions to avoid			
Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition.			
10.5. Incompatible materials			
No additional information available			
10.6. Hazardous decomposition products			
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity : Not classified			
Skin corrosion/irritation : Causes skin irritation.			
Serious eye damage/irritation : Not classified			
Respiratory or skin sensitization : May cause an allergic skin reaction.			

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity - single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/effects after skin contact Symptoms/effects after ingestion	<ul><li>Irritation. May cause an allergic skin reaction.</li><li>Risk of lung edema.</li></ul>

SECTION 12: Ecological information				
12.1.	Toxicity			
Ecolog	ıy - general	: Very toxic to aquatic life with long lasting effects.		
12.2.	Persistence and degradability			
No addi	No additional information available			
12.3.	Bioaccumulative potential			
No additional information available				
12.4.	Mobility in soil			
No additional information available				
12.5.	Other adverse effects			
No addi	No additional information available			

<b>SECTION 13: Disposal considerat</b>	ions
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Flammable vapors may accumulate in the container.

### **SECTION 14: Transport information**

Department of Transportation (DOT)

In accordance with DOT	
Transport document description	: UN1169 Extracts, aromatic, liquid, 3, III
UN-No.(DOT)	: UN1169
Proper Shipping Name (DOT)	: Extracts, aromatic, liquid
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 3 - Flammable liquid
	TAMMARE LIDET
Dangerous for the environment	: Yes

Dangerous for the environment Marine pollutant

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) : Yes

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DOT Special Provisions (49 CFR 172.102)	:	B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this
	_	subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)		150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	220 L
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number	:	127
Other information	:	No supplementary information available.
Transportation of Dangerous Goods		
Not applicable		
Transport by sea		
Transport document description (IMDG) UN-No. (IMDG)		UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III 1169
Proper Shipping Name (IMDG)		EXTRACTS, AROMATIC, LIQUID
Class (IMDG)		3 - Flammable liquids
Packing group (IMDG)		III - substances presenting low danger
Limited quantities (IMDG)		5 L
Marine pollutant		Yes
	-	
Air transport		
Transport document description (IATA) UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA) Packing group (IATA)	:	UN 1169 Extracts, aromatic, liquid, 3, III 1169 Extracts, aromatic, liquid 3 - Flammable Liquids III - Minor Danger

SECTION	15: Regu	latory in	formation

15.1. US Federal regulations

No additional information available

### 15.2. International regulations

**CANADA** No additional information available

EU-Regulations No additional information available

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#### **National regulations**

No additional information available

#### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

#### Full text of H-phrases:

H226	Flammable liquid and vapour			
H304	May be fatal if swallowed and enters airways			
H315	Causes skin irritation May cause an allergic skin reaction			
H317				
H400	Very toxic to aquatic life			
H410 Very toxic to aquatic life with long lasting effects				

#### SDS US (GHS HazCom 2012)

Company Disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Appalachian Valley Natural Products shall not be held liable for any damage resulting from handling or from contact with the above product.