

Batch #: T220001

Batch QR Code:



Destination URL:

<https://hoglabs.info/T220001.pdf>

Description:

- 1000mg Broad Spectrum Hemp Distillate Tincture, Certificate of Analysis (CoA), SDS (Safety Data Sheet), Flavors (Natural, Blood Orange)

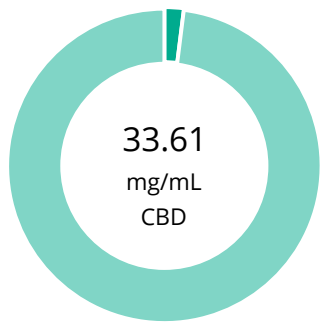
Best By:

JUNE 2023

Natural Tincture 1000mg MHL #6

Batch ID:	T220001	Test ID:	T000189045
Type:	Solution	Submitted:	01/24/2022 @ 10:22 AM
Test:	Potency	Started:	1/25/2022
Method:	TM14 (HPLC-DAD)	Reported:	1/26/2022

CANNABINOID PROFILE



CBD 3.55%

CBDa 0.00%

delta 9 THC 0.07%

THCa 0.00%

Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.13	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.15	0.68	0.7
Cannabidiolic acid (CBDA)	0.15	ND	ND
Cannabidiol (CBD)	0.15	33.61	35.5
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.16	ND	ND
Cannabinolic Acid (CBNA)	0.09	ND	ND
Cannabinol (CBN)	0.04	ND	ND
Cannabigerolic acid (CBGA)	0.14	ND	ND
Cannabigerol (CBG)	0.03	0.23	0.2
Tetrahydrocannabivarinic Acid (THCVA)	0.12	ND	ND
Tetrahydrocannabivarin (THCV)	0.03	ND	ND
Cannabidivarinic Acid (CBDVA)	0.06	ND	ND
Cannabidivarin (CBDV)	0.04	0.14	0.1
Cannabichromenic Acid (CBCA)	0.05	ND	ND
Cannabichromene (CBC)	0.06	1.07	1.1
Total Cannabinoids		35.73	37.8
Total Potential THC**		0.68	0.7
Total Potential CBD**		33.61	35.5

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa *(0.877)) and


Total CBD = CBD + (CBDA *(0.877))

ND = None Detected (Defined by Dynamic Range of the method)


NOTES:

Density = 0.946g/mL

FINAL APPROVAL


 Jacob Miller
 26-Jan-2022
 11:38 AM

PREPARED BY / DATE


 Daniel Weidensaul
 26-Jan-2022
 11:43 AM

APPROVED BY / DATE

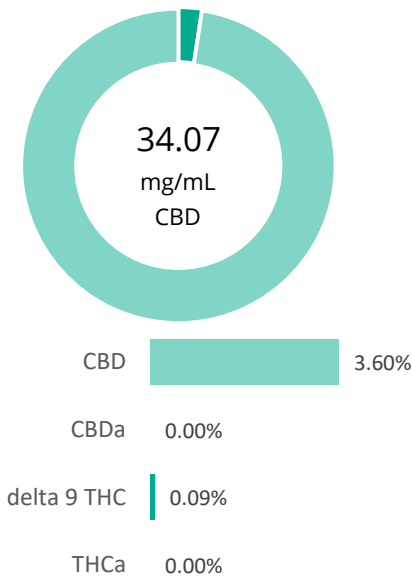
Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

Blood Orange Tincture 1000mg MHL #6

Batch ID:	T220001	Test ID:	T000189048
Type:	Solution	Submitted:	01/24/2022 @ 10:22 AM
Test:	Potency	Started:	1/25/2022
Method:	TM14 (HPLC-DAD)	Reported:	1/26/2022

CANNABINOID PROFILE


Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.12	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.14	0.84	0.9
Cannabidiolic acid (CBDA)	0.14	ND	ND
Cannabidiol (CBD)	0.14	34.07	36.0
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.15	ND	ND
Cannabinolic Acid (CBNA)	0.09	ND	ND
Cannabinol (CBN)	0.04	0.06	0.1
Cannabigerolic acid (CBGA)	0.13	ND	ND
Cannabigerol (CBG)	0.03	0.42	0.4
Tetrahydrocannabivarinic Acid (THCVA)	0.11	ND	ND
Tetrahydrocannabivarin (THCV)	0.03	ND	ND
Cannabidivarinic Acid (CBDVA)	0.06	ND	ND
Cannabidivarin (CBDV)	0.03	ND	ND
Cannabichromenic Acid (CBCA)	0.05	ND	ND
Cannabichromene (CBC)	0.05	0.88	0.9
Total Cannabinoids		36.27	38.3
Total Potential THC**		0.84	0.9
Total Potential CBD**		34.07	36.0

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.


$$\text{Total THC} = \text{THC} + (\text{THCa} * 0.877)$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * 0.877)$$


ND = None Detected (Defined by Dynamic Range of the method)

NOTES:

Density = 0.946g/mL

FINAL APPROVAL

Jacob Miller
 26-Jan-2022
 11:38 AM

PREPARED BY / DATE


Daniel Weidensaul
 26-Jan-2022
 11:43 AM

APPROVED BY / DATE

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Certificate #4329.02

Natural Tincture 1000mg MHL #6

Batch ID:	T220001	Test ID:	T000189046
Matrix:	Finished Product	Received:	01/24/2022 @ 10:22 AM
Test:	Microbial Contaminants	Started:	1/24/2022
Methods:	TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Reported:	1/27/2022

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	Quantitation Range	Result
Total Yeast and Mold*	TM-24 Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴ CFU/g	None Detected
Total Aerobic Bacteria*	TM-26 Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵ CFU/g	None Detected
Total Coliforms*	TM-27 Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴ CFU/g	None Detected
STEC	TM-25 PCR	10 ⁰ CFU/g	N/A	Absent
Salmonella	TM-25 PCR	10 ⁰ CFU/g	N/A	Absent

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10² = 100 CFU
10³ = 1,000 CFU
10⁴ = 10,000 CFU
10⁵ = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter

DEFINITIONS:

CFU/g = Colony Forming Units per gram | LOD = Limit of Detection | STEC = Shiga toxin-producing E. coli
LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

FINAL APPROVAL

	Brett Hudson 1/27/2022 4:12:00 PM		Brianne Maillot 1/27/2022 4:29:00 PM
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Certificate #4329.03

Blood Orange Tincture 1000mg MHL #6

Batch ID:	T220001	Test ID:	T000189049
Matrix:	Finished Product	Received:	01/24/2022 @ 10:22 AM
Test:	Microbial Contaminants	Started:	1/24/2022
Methods:	TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Reported:	1/27/2022

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	Quantitation Range	Result
Total Yeast and Mold*	TM-24 Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴ CFU/g	None Detected
Total Aerobic Bacteria*	TM-26 Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵ CFU/g	None Detected
Total Coliforms*	TM-27 Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴ CFU/g	None Detected
STEC	TM-25 PCR	10 ⁰ CFU/g	N/A	Absent
Salmonella	TM-25 PCR	10 ⁰ CFU/g	N/A	Absent

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10² = 100 CFU
10³ = 1,000 CFU
10⁴ = 10,000 CFU
10⁵ = 100,000 CFU


NOTES:

Free from visual mold, mildew, and foreign matter

DEFINITIONS:

CFU/g = Colony Forming Units per gram | LOD = Limit of Detection | STEC = Shiga toxin-producing E. coli
LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

FINAL APPROVAL


Brett Hudson
1/27/2022
4:12:00 PM

PREPARED BY / DATE


Brianne Maillot
1/27/2022
4:29:00 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03

Prepared for:

Natural Tincture 1000mg MHL #6
Heart of Gold Laboratories


Batch ID or Lot Number: T220001	Test: Metals	Reported: 1/26/22	Location: 3533 W Mansfield Ave Unit D Denver, CO 80236
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Matrix: Unit	Test ID: T000189047	Started: 1/25/22	USDA License: N/A
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Status: N/A	Method: TM19 (ICP-MS); Heavy Metals	Received: 01/24/2022 @ 10:22 AM	Sampler ID: N/A
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HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.046 - 4.58	ND	
Cadmium	0.047 - 4.67	ND	
Mercury	0.045 - 4.53	ND	
Lead	0.046 - 4.59	ND	


 Daniel Weidensaul
 26-Jan-22
 2:12 PM

PREPARED BY / DATE


 Sam Smith
 26-Jan-22
 2:17 PM

APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



Certificate #4329.02


Prepared for:

Blood Orange Tincture 1000mg MHL #6
Heart of Gold Laboratories


Batch ID or Lot Number: T220001	Test: Metals	Reported: 1/26/22	Location: 3533 W Mansfield Ave Unit D Denver, CO 80236
Matrix: Unit	Test ID: T000189050	Started: 1/25/22	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS); Heavy Metals	Received: 01/24/2022 @ 10:22 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.046 - 4.58	ND	
Cadmium	0.047 - 4.67	ND	
Mercury	0.045 - 4.53	ND	
Lead	0.046 - 4.59	ND	


 Daniel Weidensaul
 26-Jan-22
 2:12 PM

PREPARED BY / DATE


 Sam Smith
 26-Jan-22
 2:17 PM

APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



Certificate #4329.02

Certificate of Analysis

Final Product: Bulk CBD Distillate Tincture
Date of Manufacture: June 2021
Manufacturing Lot: B2106B121
Packaging Lots: 210119

Flavor: Natural

Strength: 1000mg



Test	Methodology	Specification	Test Results (Average)*	Pass/Fail
Color and Appearance - Product	TM-004 (Visual)	Clear or yellow to orange/red clear, flowing, liquid free of particulates	Conforms	Pass
Aroma / Odor	TM-004 (Organoleptic)	Prominent labeled aroma	Conforms	Pass
Cannabinoid Identification	TM-003 (DAD Retention Time)	Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass
	TM-003 (DAD UV Spectrum)	UV Spectrum of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass
CBD Content	Assay (% of label claim)(%)	TM-003 (HPLC-DAD) 90.0 - 110.0 %	99.7	Pass
	Assay(%w/w)	TM-003 (HPLC-DAD) Report	3.440	NA
THC Content (% w/w)	THC(%w/w)	TM-003 (HPLC-DAD) Report	0.087	NA
	THCA(%w/w)	TM-003 (HPLC-DAD) Report	ND	NA
	Total THC (THC + THCA*0.877)(%w/w)	TM-003 (HPLC-DAD) ≤0.3 %w/w	0.087	Pass
Related Cannabinoid Content (% w/w)	CBN(%w/w)	TM-003 (HPLC-DAD) Report	0.003	NA
	cis-THC(%w/w)	TM-003 (HPLC-DAD) Report	0.037	NA
	d8-THC(%w/w)	TM-003 (HPLC-DAD) Report	ND	NA
	THCV(%w/w)	TM-003 (HPLC-DAD) Report	0.002	NA
	THCVA(%w/w)	TM-003 (HPLC-DAD) Report	ND	NA
	CBC(%w/w)	TM-003 (HPLC-DAD) Report	0.121	NA
	CBDA(%w/w)	TM-003 (HPLC-DAD) Report	ND	NA
	CBDVA(%w/w)	TM-003 (HPLC-DAD) Report	ND	NA
	CBDV(%w/w)	TM-003 (HPLC-DAD) Report	0.016	NA
	CBE(%w/w)	TM-003 (HPLC-DAD) Report	0.025	NA
	CBGA(%w/w)	TM-003 (HPLC-DAD) Report	ND	NA
	CBG(%w/w)	TM-003 (HPLC-DAD) Report	0.028	NA
	CBL(%w/w)	TM-003 (HPLC-DAD) Report	0.008	NA
	CBT(%w/w)	TM-003 (HPLC-DAD) Report	0.047	NA
	Total (Sum of all observed Related Cannabinoids)(% w/w)	TM-003 (HPLC-DAD) Report	0.374	NA
	Total Cannabinoids (CBD plus total RCs, % w/w)	TM-003 (HPLC-DAD) Report	3.814	NA

*Number of replicates: 3

Data Reviewed and Approved by: Tim Ghelli
7/12/2021 10:01:09 AM

Certificate of Analysis

Final Product: Bulk CBD Distillate Tincture
Date of Manufacture: May 2021
Manufacturing Lot: B2105B086
Packaging Lots:
 210091

Flavor: Blood Orange

Strength: 1000mg



Test	Methodology	Specification	Test Results (Average)*	Pass/Fail
Color and Appearance - Product	TM-004 (Visual)	Clear or yellow to orange/red clear, flowing, liquid free of particulates	Conforms	Pass
Aroma / Odor	TM-004 (Organoleptic)	Prominent labeled aroma	Conforms	Pass
Cannabidiol Identification	TM-003 (DAD Retention Time)	Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass
	TM-003 (DAD UV Spectrum)	UV Spectrum of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass
CBD Content	Assay (% of label claim)(%)	TM-003 (HPLC-DAD) 90.0 - 110.0 %	99.8	Pass
	Assay(%w/w)	TM-003 (HPLC-DAD) Report	3.442	NA
THC Content (% w/w)	THC(%w/w)	TM-003 (HPLC-DAD) Report	0.105	NA
	THCA(%w/w)	TM-003 (HPLC-DAD) Report	ND	NA
	Total THC (THC + THCA*0.877)(%w/w)	TM-003 (HPLC-DAD) ≤0.3 %w/w	0.105	Pass
Related Cannabinoid Content (% w/w)	CBN(%w/w)	TM-003 (HPLC-DAD) Report	0.006	NA
	cis-THC(%w/w)	TM-003 (HPLC-DAD) Report	0.041	NA
	d8-THC(%w/w)	TM-003 (HPLC-DAD) Report	ND	NA
	THCV(%w/w)	TM-003 (HPLC-DAD) Report	0.002	NA
	THCVA(%w/w)	TM-003 (HPLC-DAD) Report	ND	NA
	CBC(%w/w)	TM-003 (HPLC-DAD) Report	0.099	NA
	CBDA(%w/w)	TM-003 (HPLC-DAD) Report	ND	NA
	CBDVA(%w/w)	TM-003 (HPLC-DAD) Report	ND	NA
	CBDV(%w/w)	TM-003 (HPLC-DAD) Report	0.019	NA
	CBE(%w/w)	TM-003 (HPLC-DAD) Report	0.037	NA
	CBGA(%w/w)	TM-003 (HPLC-DAD) Report	ND	NA
	CBG(%w/w)	TM-003 (HPLC-DAD) Report	0.042	NA
	CBL(%w/w)	TM-003 (HPLC-DAD) Report	0.005	NA
	CBT(%w/w)	TM-003 (HPLC-DAD) Report	0.039	NA
	Total (Sum of all observed Related Cannabinoids)(% w/w)	TM-003 (HPLC-DAD) Report	0.396	NA
Total Cannabinoids (CBD plus total RCs, % w/w)	TM-003 (HPLC-DAD) Report	3.837	NA	

*Number of replicates: 3

Data Reviewed and Approved by: Tim Ghelli
 6/24/2021 9:25:33 AM

Specification: FX012
 Mfg Lot: B2105B086

2555 W. Midway Blvd Broomfield, CO 80020

Page 1/1



MILE HIGH LABS

Safety Data Sheet

According to Regulation (EC) No 1907/2006

NATURAL FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006

Page 1 of 8

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

1.1. Product identifier

NATURAL FLAVORING DISTILLATE TINCTURE OIL

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

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: Mile High Labs
 Address: 697 N. Denver Avenue, Suite 132
 Loveland, CO 80537
 USA
 Telephone: (970) 775-7463 ext. 0

1.4. Emergency telephone number:

(970) 776-9194 ext. 0

Further Information

This sheet was prepared on a voluntary basis.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008
 Not a hazardous substance or mixture

2.2. Label elements

Regulation (EC) No. 1272/2008
 Not a hazardous substance or mixture

2.3. Other hazards

None

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Components

Component	CAS No.	EC No.	Weight %
MCT Oil	65381-09-1, 73398-61-5	NA	90 - 100
Hemp Oil Distillate			
Cannabidiol (CBD)	13956-29-1	NA	≤ 5
Total THC = (THC + THCA)	1972-08-3, 23978-85-0	NA	≤ 0.3
Cannabidiolic Acid (CBDA)	1244-58-2	NA	≤ 1
Cannabinol (CBN)	521-35-7	NA	≤ 1
Cannabidivarin (CBDV)	24274-48-4	NA	≤ 1
Cannabichromene (CBC)	20675-51-8	NA	≤ 1
Cannabigerol (CBG)	25654-31-3	NA	≤ 1

Full text of H and EUH statements: see Section 16.

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

GB - EN



MILE HIGH LABS

Safety Data Sheet

According to Regulation (EC) No 1907/2006

NATURAL FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006

Page 2 of 8

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. Apply cortisone spray at early stage.

After contact with skin

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
In case of eye irritation consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). When in doubt or if symptoms are observed, get medical advice.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media Suitable

extinguishing media

Use alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

Carbon oxides.

5.2. Special hazards arising from the substance or mixture

Wear self-contained breathing apparatus for firefighting if necessary.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. For personal protection see Section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Safe handling: see Section 7

Personal protection equipment: see Section 8

Disposal: see Section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

GB - EN



MILE HIGH LABS

Safety Data Sheet

According to Regulation (EC) No 1907/2006

NATURAL FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006

Page 3 of 8

Advice on safe handling

Provide appropriate exhaust ventilation at places where dust is formed.
Normal measures for preventative fire protection.
Wear suitable protective clothing (See section 8).
For precautions see Section 2.2.

Advice on protection against fire and explosion

See Section 5.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in dry and well-ventilated place.
Containers which are opened must be carefully released and kept upright to prevent leakage.
Recommended storage temperature-controlled room temperature 68-77 °F (20-25 °C).

Hints on joint storage

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Protect against: Light. UV-radiation/sunlight. heat. Cold Humidity

7.3. Specific end use(s)

Apart from the uses mentioned in Section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limits.

8.2. Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Protective and hygiene measures

Always close containers tightly after the removal of product.

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves.

Gloves must be inspected prior to use.

Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls

Do not let product enter drains.



MILE HIGH LABS

Safety Data Sheet

According to Regulation (EC) No 1907/2006

NATURAL FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006

Page 4 of 8

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Viscous liquid
Colour:	Clear or yellow to orange
Odour:	No data available

pH-Value:	No data available
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Changes in the physical state

Melting point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available

Sustaining combustion:	No data available
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Explosive properties

Lower explosion limits:	No data available
Upper explosion limits:	No data available
Ignition temperature:	No data available

Oxidizing properties

None

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NATURAL FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006

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Vapour pressure: (at 20 °C)	Not determined
Density (at 20 °C):	Not determined
Water solubility:	Not miscible
Solubility in other solvents	not determined
Viscosity / dynamic:	Not determined
Viscosity / kinematic:	Not determined
Flow time:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solvent content:	Not determined

9.2. Other information

Solid content:	Not determined
----------------	----------------

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known. In the event of fire: see Section 5.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

Acute toxicity

Inhalation: No data available

Dermal: No data available



MILE HIGH LABS

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According to Regulation (EC) No 1907/2006

NATURAL FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006

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Irritation and corrosivity

No data available

Sensitising effects

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

Specific effects in experiment on an animal

No information available

SECTION 12: Ecological information**12.1. Toxicity**

No data available.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

Further information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal of the product**

Waste generators must determine whether a waste is hazardous and consult local, state, and national hazardous waste regulations to ensure complete accurate classification to ensure proper disposal.

SECTION 14: Transport information**DOT (US)**

Not a hazardous material.



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According to Regulation (EC) No 1907/2006

NATURAL FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006

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IMDG

Not a dangerous goods.

IATA

Not dangerous goods.

14.1. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.2. Special precautions for user

See Section 8.

14.3. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

not determined

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Chronic Health Hazard.

SECTION 16: Other information

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Mile High Labs, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Mile High Labs, Inc. has been advised of the possibility of such damages.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level

NTP: National Toxicology Program

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Product code: FX-006

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N/A: not applicable

OSHA: Occupational Safety and Health Administration

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern

TRGS Technische Regeln fuer Gefahrstoffe

TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe

WGK: Wassergefaehrdungsklasse

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H371	May cause damage to organs.
EUH208	Contains Clove oil from flower buds, citronellal, geraniol, citronellol. May produce an allergic reaction.

Further Information

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

Document Approvals
Approved Date: 8/23/2019

Approval Task Verdict: Approve	Beth Grant, (b.grant@milehighlabs.com) Quality Approval 23-Aug-2019 18:46:21 GMT+0000
Approval Task Verdict: Approve	Kristen Hypes, (k.hypes@milehighlabs.com) Quality Approval 23-Aug-2019 18:46:39 GMT+0000

Approved



MILE HIGH LABS

Safety Data Sheet

According to Regulation (EC) No 1907/2006

BLOOD ORANGE FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006 – Blood Orange

Page 1 of 8

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

1.1. Product identifier

BLOOD ORANGE FLAVORING DISTILLATE TINCTURE OIL

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

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: Mile High Labs
 Address: 697 N. Denver Avenue, Suite 132
 Loveland, CO 80537
 USA
 Telephone: (970) 775-7463 ext. 0

1.4. Emergency telephone number:

(970) 776-9194 ext. 0

Further Information

This sheet was prepared on a voluntary basis.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008
 Not a hazardous substance or mixture

2.2. Label elements

Regulation (EC) No. 1272/2008
 Not a hazardous substance or mixture

2.3. Other hazards

None

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Components

Component	CAS No.	EC No.	Weight %
MCT Oil	65381-09-1, 73398-61-5	NA	80 - 90
Blood Orange Oil	8028-48-6	NA	5 - 8
Ethyl Butyrate	105-54-4	203-306-4	0 - 1
Hemp Oil Distillate			
Cannabidiol (CBD)	13956-29-1	NA	≤ 5
Total THC = (THC + THCA)	1972-08-3, 23978-85-0	NA	≤ 0.3
Cannabidiolic Acid (CBDA)	1244-58-2	NA	≤ 1
Cannabinol (CBN)	521-35-7	NA	≤ 1
Cannabidivarin (CBDV)	24274-48-4	NA	≤ 1
Cannabichromene (CBC)	20675-51-8	NA	≤ 1
Cannabigerol (CBG)	25654-31-3	NA	≤ 1

Full text of H and EUH statements: see Section 16.



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Safety Data Sheet

According to Regulation (EC) No 1907/2006

BLOOD ORANGE FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006 – Blood Orange

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Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. Apply cortisone spray at early stage.

After contact with skin

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
In case of eye irritation consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). When in doubt or if symptoms are observed, get medical advice.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media Suitable

extinguishing media

Use alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

Carbon oxides.

5.2. Special hazards arising from the substance or mixture

Wear self-contained breathing apparatus for firefighting if necessary.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. For personal protection see Section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Safe handling: see Section 7

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Safety Data Sheet

According to Regulation (EC) No 1907/2006

BLOOD ORANGE FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006 – Blood Orange

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Personal protection equipment: see Section 8

Disposal: see Section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventative fire protection.

Wear suitable protective clothing (See section 8).

For precautions see Section 2.2.

Advice on protection against fire and explosion

See Section 5.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in dry and well-ventilated place.

Containers which are opened must be carefully released and kept upright to prevent leakage.

Recommended storage temperature-controlled room temperature 68-77 °F (20-25 °C).

Hints on joint storage

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases.

Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Protect against: Light. UV-radiation/sunlight. heat. Cold Humidity

7.3. Specific end use(s)

Apart from the uses mentioned in Section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limits.

8.2. Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Protective and hygiene measures

Always close containers tightly after the removal of product.

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves.

Gloves must be inspected prior to use.

Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



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Safety Data Sheet

According to Regulation (EC) No 1907/2006

BLOOD ORANGE FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006 – Blood Orange

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Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Viscous liquid
Colour:	Clear or yellow to orange
Odour:	Orange
pH-Value:	No data available
Changes in the physical state	
Melting point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	< 23 °C
Sustaining combustion:	No data available
Explosive properties	
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Ignition temperature:	No data available
Oxidizing properties	
None	



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According to Regulation (EC) No 1907/2006

BLOOD ORANGE FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006 – Blood Orange

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Vapour pressure: (at 20 °C)	Not determined
Density (at 20 °C):	Not determined
Water solubility:	Not miscible
Solubility in other solvents	not determined
Viscosity / dynamic:	Not determined
Viscosity / kinematic:	Not determined
Flow time:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solvent content:	Not determined

9.2. Other information

Solid content:	Not determined
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SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known. In the event of fire: see Section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

Inhalation: No data available

Dermal: No data available



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Safety Data Sheet

According to Regulation (EC) No 1907/2006

BLOOD ORANGE FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006 – Blood Orange

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Irritation and corrosivity

No data available

Sensitising effects

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

Specific effects in experiment on an animal

No information available

SECTION 12: Ecological information**12.1. Toxicity**

No data available.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

Further information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal of the product**

Waste generators must determine whether a waste is hazardous and consult local, state, and national hazardous waste regulations to ensure complete accurate classification to ensure proper disposal.

SECTION 14: Transport information**DOT (US)**

Not a hazardous material.



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Safety Data Sheet

According to Regulation (EC) No 1907/2006

BLOOD ORANGE FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006 – Blood Orange

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IMDG

Not a dangerous goods.

IATA

Not dangerous goods.

14.1. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.2. Special precautions for user

See Section 8.

14.3. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

not determined

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Chronic Health Hazard.

SECTION 16: Other information

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Mile High Labs, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Mile High Labs, Inc. has been advised of the possibility of such damages.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

CAS Chemical Abstracts Service

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LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level



MILE HIGH LABS

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According to Regulation (EC) No 1907/2006

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Product code: FX-006 – Blood Orange

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N/A: not applicable

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PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

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SVHC: substance of very high concern

TRGS Technische Regeln fuerGefahrstoffe

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Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

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H319	Causes serious eye irritation.
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H371	May cause damage to organs.
EUH208	Contains Clove oil from flower buds, citronellal, geraniol, citronellol. May produce an allergic reaction.

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Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

Document Approvals
Approved Date: 8/23/2019

Approval Task Verdict: Approve	Beth Grant, (b.grant@milehighlabs.com) Quality Approval 23-Aug-2019 18:44:59 GMT+0000
Approval Task Verdict: Approve	Kristen Hypes, (k.hypes@milehighlabs.com) Quality Approval 23-Aug-2019 18:46:00 GMT+0000

Approved