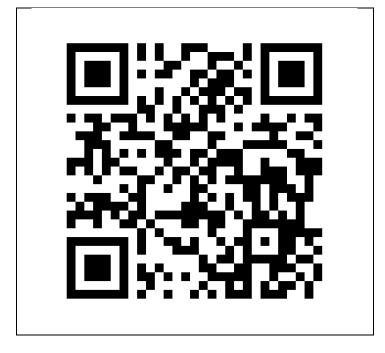
# Batch #: PT200001

Batch QR Code:



Destination URL:

https://hoglabs.info/PT200001.pdf

Description:

500mg Pet Broad Spectrum Hemp Distillate Tincture, Certificate of Analysis (CoA)

Best By:

FEB 2022



#### prepared for: Heart of Gold Laboratories

3533 W Mansfield Ave Unit D

Denver, CO 80236

# PET TINCTURE MHL #4

Batch ID:	T200003	Test ID:	6669325.0055
Reported:	27-Jul-2020	Method:	TM14
Туре:	Solution		
Test:	Potency		

# CANNABINOID PROFILE

			Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
			Delta 9-Tetrahydrocannabinolic acid (THCA-	A) 0.09	ND	ND
			Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.05	0.20	0.2
			Cannabidiolic acid (CBDA)	0.11	ND	ND
			Cannabidiol (CBD)	0.06	16.40	17.3
	16.4mg/mL		Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.05	ND	ND
	mg/mL		Cannabinolic Acid (CBNA)	0.12	ND	ND
	J		Cannabinol (CBN)	0.05	ND	ND
			Cannabigerolic acid (CBGA)	0.08	ND	ND
			Cannabigerol (CBG)	0.04	ND	ND
			Tetrahydrocannabivarinic Acid (THCVA)	0.08	ND	ND
			Tetrahydrocannabivarin (THCV)	0.04	ND	ND
			Cannabidivarinic Acid (CBDVA)	0.10	ND	ND
			Cannabidivarin (CBDV)	0.05	ND	ND
CBD		1.73%	Cannabichromenic Acid (CBCA)	0.07	ND	ND
			Cannabichromene (CBC)	0.08	0.60	0.6
CBDa	0.00%					
			Total Cannabinoids		17.20	18.14
delta 9 THC	0.02%		Total Potential THC**		0.20	0.19
ueita 9 Inc	0.02%		Total Potential CBD**		16.40	17.31
THCa	0.00%					
			NOTES:			
( 0/ (w/w) Dereent (Mair	and a f A and the (MA sight of Decision)					

%=% (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

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

# FINAL APPROVAL

Danuel Wardansard

Daniel Weidensaul 27-Jul-2020 1:57 PM



Density = 0.947923g/mL

Greg Zimpfer 27-Jul-2020 2:01 PM

PREPARED BY / DATE

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

N/A





CERTIFICATE OF ANALYSIS

# prepared for: HEART OF GOLD LABORATORIES

3533 W MANSFIELD AVE UNIT D **DENVER, CO 80236** 

# PET TINCTURE MHL #4

Batch ID:	T200003	Test ID:	T000087484
Reported:	27-Jul-2020	Method:	Edible - Test Methods: TM05, TM06
Туре:	Edible		
Test:	Microbial Contaminants		

# **MICROBIAL** CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
E. coli	None Detected
Salmonella	None Detected

\* CFU/g = Colony Forming Unit per Gram

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

*Examples:* 10^2 = 100 CFU 10^3 = 1,000 CFU 10^4 = 10,000 CFU 10^5 = 100,000 CFU

#### NOTES:

Free from visual mold, mildew, and foreign matter TYM: None Detected Total Aerobic: None Detected Coliforms: None Detected

# **FINAL** APPROVAL

Sarah Henning 27-Jul-2020 12:11 PM

Den Muton

Ben Minton 27-Jul-2020 12:29 PM

PREPARED BY / DATE

APPROVED BY / DATE

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# CERTIFICATE OF ANALYSIS

#### prepared for: Heart of Gold Laboratories

3533 W Mansfield Ave Unit D Denver, CO 80236

# PET TINCTURE MHL #4

Batch ID: T	200003	Test ID:	T000087485
Reported: 2	7-Jul-2020	Method:	TM19
Type: O	Other		
Test: N	letals		

# HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.077 - 7.71	ND
Cadmium	0.078 - 7.80	ND
Mercury	0.077 - 7.68	ND
Lead	0.077 - 7.71	ND

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

# FINAL APPROVAL

PREPARED BY / DATE

Ryan Weems 27-Jul-2020 6:23 PM

Greg Zimpfer 27-Jul-2020 7:43 PM

APPROVED BY / DATE

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# **Certificate of Analysis**

Final Product: Ti	ncture - Hemp Oil Distillate	Lot Number:
Flavor: Natural	Strength:	500mg
Date of Manufacture	: February 2020	

PB2001F111



Test	Methodology		Specification	Test Results (Average)*	Pass/Fail
Visual	Color and Appearance	TM-004 (Visual)	Clear or yellow to orange/red clear, flowing, liquid free of particulates	Conforms	Pass
Organoleptic	Aroma/Odor	TM-004 (Organoleptic)	Prominent labeled aroma	Conforms	Pass
Cannabidiol Identification	ID by Retention Time	TM-003 (DAD Retention Time)	Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass
	ID by UV	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 (percent of label claim)(%)	TM-003 (HPLC-DAD)	90.0 - 110.0 %	99.7	Pass
	THC(%w/w)	TM-003 (HPLC-DAD)	Report	0.028	NA
THC Content	THCA(%w/w)	TM-003 (HPLC-DAD)	Report	ND	NA
	Total THC(%w/w)	TM-003 (HPLC-DAD)	≤0.3 %w/w	0.028	Pass
	CBDA(%w/w)	TM-003 (HPLC-DAD)	Report	ND	NA
	CBN(%w/w)	TM-003 (HPLC-DAD)	Report	0.003	NA
Related Cannabinoid	CBDV(%w/w)	TM-003 (HPLC-DAD)	Report	0.009	NA
Content	CBG(%w/w)	TM-003 (HPLC-DAD)	Report	0.006	NA
	Other (Highest)(%w/w)	TM-003 (HPLC-DAD)	Report	0.011	NA
	Total (RC)(%w/w)	TM-003 (HPLC-DAD)	Report	0.150	NA
Total Cannabinoids	(CBD plus total RCs)(% w/w)	TM-003 (HPLC-DAD)	Report	1.868	NA

\*Number of replicates: 3

<sup>1</sup>Full list of individual pesticide residues on file, Eurofins LOQ of 0.1 ppm for individual residues.

<sup>2</sup>Contract Testing performed by Eurofins BioDiagnostics.

Data Reviewed and Approved by:

Version: 1.0

Approved Date: 8/23/2019



# 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 1	32
	Loveland, CO 80537	
	USA	
Telephone:	(970) 775-7463 ext. 0	
1.4. Emergency	(970) 776-9194 ext. 0	$\overline{7}$
<u>telephone number:</u>		

#### **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**

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# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# NATURAL FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006

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#### 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

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Version: 1.0

Approved Date: 8/23/2019



# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# NATURAL FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006

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#### 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.

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# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# NATURAL FLAVORING DISTILLATE TINCTURE OIL

Product code: FX-006

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# 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
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: Explosive properties		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Ignition temperature:		No data available
Oxidizing properties None		

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# Safety Data Sheet

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 1307/2000		
NATURAL FLAVORING DISTILLATE TINCTURE OIL Product code: FX-006 Page 5 of 8		
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		
<u>10.1. Reactivity</u>		
No information available.		
10.2. Chemical stability		
The product is chemically stable under recomme	ended 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	er fire conditions – Nature of decomposition products not known. In the event c	

fire: see Section 5.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

# Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

Inhalation: No data available Dermal: No data available

Version: 1.0

Approved Date: 8/23/2019



# Safety Data Sheet

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 was regulations to ensure complete accurate classification to endure 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

# 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

GB - EN

Version: 1.0

Approved Date: 8/23/2019



# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# NATURAL FLAVORING DISTILLATE TINCTURE OIL

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 fuerGefahrstoffe

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	

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## 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

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
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