



TM

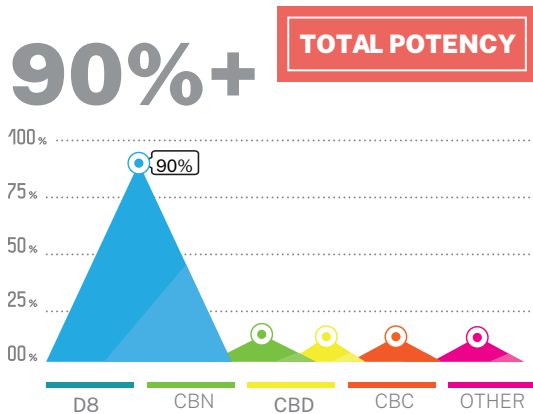
Natural

Hemp Solutions

Delta 8

Our process produces the highest quality Delta 8 derived from Industrial Hemp. This procedure creates a product by utilizing a new purifying technique that leaves the hemp derived Delta 8 clean of any solvents.

This process starts with our purified CBD isolate and creates a clean product free of any hazardous waste materials and below the legal 0.3% Delta 9 levels.



Total Cannabinoid Range: 90-95%

CBD Range: 0%

THC Range: <0.29%-0.052%

Decarbed: es.

Full Spectrum: es. Contains the cannabinoid profile minus parts of the plant profile such as the lipids and waxes

Custom Potency: Can be diluted to desired potency

Color: yellow to amber

Appearance: Thick/Crystal semi-solid

Consistency: Thick and sticky

Contains Terpenes: No



Packaging: Sold in lots of kilogram liters 5 gallon Buckets and 55 gallon Drums

Shelf Life: months unopened. Store in a cool dark location.

More info: additional information is available on our SDS

Formulating: Note that crystallization of the molecule occurs at high concentrations. Prior to formulating the oil must be heated and liquefied at 0- 5 c and mixed thoroughly.

Lab Analysis: Lab must implement proper SOP's for testing Delta 8 THC. This is a slower HPLC method or UV method that can differentiate between the THC peaks. ***NHS is not liable for product testing above 0.3% THC Delta 9 if not employing proper testing methods***

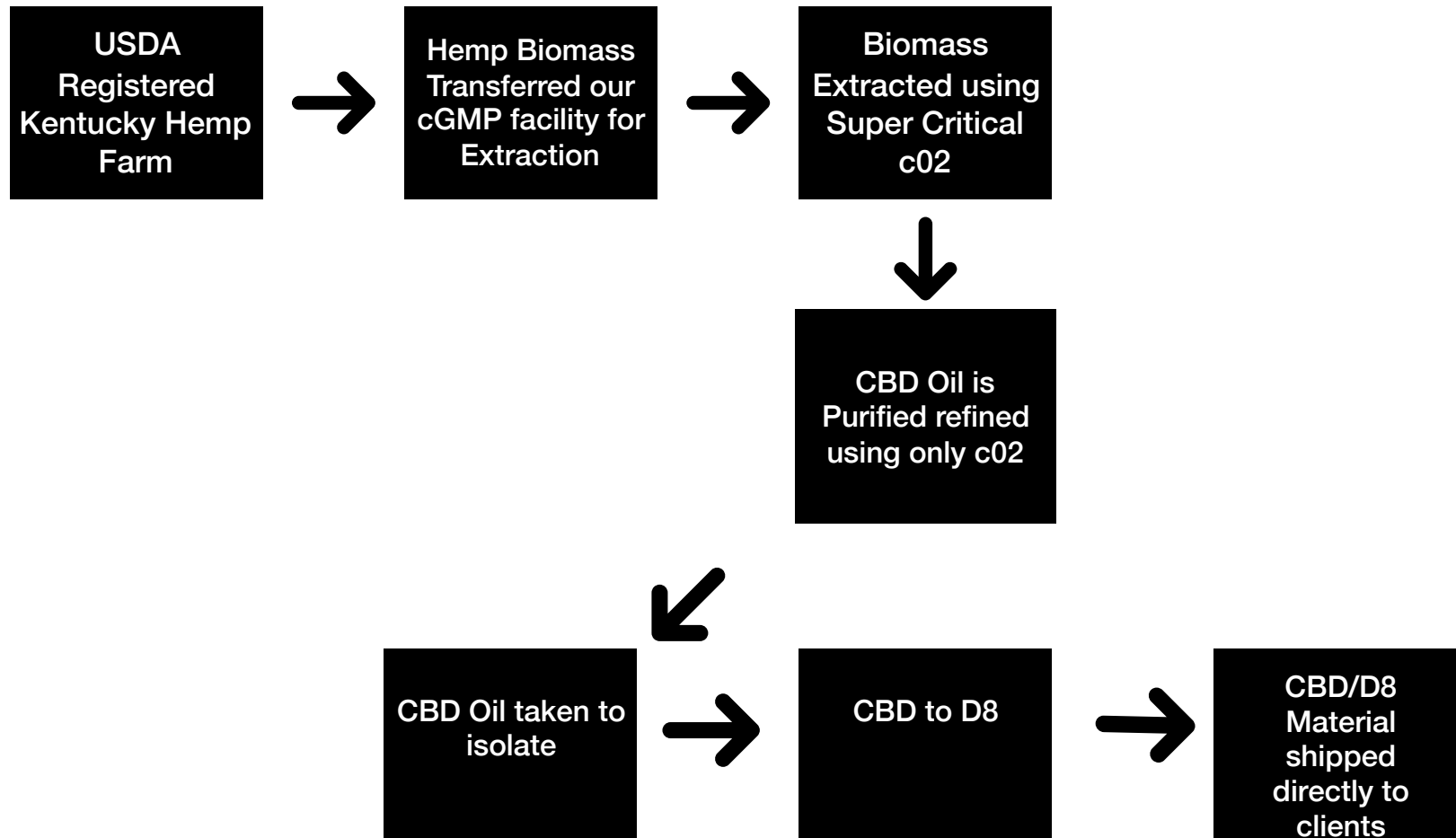


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Hemp Solutions

Process Flow Description



SAMPLE NAME: CBD Isolate

Concentrate, Product Inhalable

CULTIVATOR / MANUFACTURER

Business Name:

License Number:

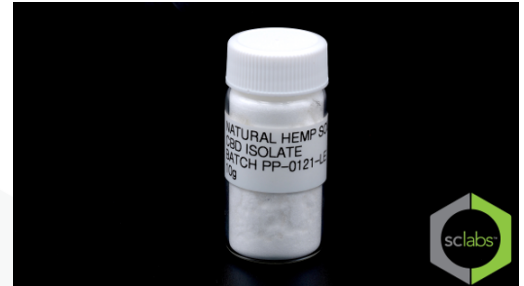
Address:

DISTRIBUTOR / TESTED FOR

Business Name: Natural Hemp Solutions

License Number:

Address:



SAMPLE DETAIL

Batch Number: PP-0121-LE

Sample ID: 210125Q023

Date Collected: 01/25/2021

Date Received: 01/25/2021

Batch Size:

Sample Size: 10.0 units

Unit Mass: 10 grams per Unit

Serving Size:



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: Not Detected

Total CBD: 99.456%

Sum of Cannabinoids: 99.702%

Total Cannabinoids: 99.702%

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:
 Total THC = $\Delta 9\text{THC} + (\text{THCa} \cdot 0.877)$
 Total CBD = $\text{CBD} + (\text{CBDa} \cdot 0.877)$
 Sum of Cannabinoids = $\Delta 9\text{THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} + \text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$
 Total Cannabinoids = $(\Delta 9\text{THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) + (\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) + (\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$

Moisture: NT

Density: NT

Viscosity: NT

TERPENOID ANALYSIS - SUMMARY

36 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: ND

SAFETY ANALYSIS - SUMMARY

$\Delta 9\text{THC}$ per Unit: ✔ PASS

Foreign Material: NT

Water Activity: NT

Vitamin E Acetate: NT

Pesticides: ✔ PASS

Mycotoxins: NT

Residual Solvents: ✔ PASS

Heavy Metals: ✔ PASS

Microbial Impurities (PCR): ✔ PASS

Microbial Impurities (Plating): NT


For quality assurance purposes. Not a Pre-Harvest Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: California Code of Regulations Title 16 Effect Date January 16, 2019. Authority: Section 26013, Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)


 LQC verified by: Jon Brodie
 Date: 01/27/2021


 Approved by: Josh Wurzer, President
 Date: 01/27/2021



Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: Not Detected

Total THC ($\Delta 9\text{THC} + 0.877 * \text{THCa}$)

TOTAL CBD: 99.456%

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

TOTAL CANNABINOIDS: 99.702%

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + $\Delta 8\text{THC}$ + CBL + CBN

TOTAL CBG: ND

Total CBG ($\text{CBG} + 0.877 * \text{CBGa}$)

TOTAL THCV: ND

Total THCV ($\text{THCV} + 0.877 * \text{THCVa}$)

TOTAL CBC: ND

Total CBC ($\text{CBC} + 0.877 * \text{CBCa}$)

TOTAL CBDV: 0.246%

Total CBDV ($\text{CBDV} + 0.877 * \text{CBDVa}$)

CANNABINOID TEST RESULTS - 01/26/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.07 / 0.29	± 46.048	994.56	99.456
CBDV	0.04 / 0.15	± 0.107	2.46	0.246
$\Delta 9\text{THC}$	0.06 / 0.26	N/A	ND	ND
$\Delta 8\text{THC}$	0.1 / 0.4	N/A	ND	ND
THCa	0.05 / 0.14	N/A	ND	ND
THCV	0.1 / 0.2	N/A	ND	ND
THCVa	0.07 / 0.20	N/A	ND	ND
CBDa	0.02 / 0.19	N/A	ND	ND
CBDVa	0.03 / 0.53	N/A	ND	ND
CBG	0.06 / 0.19	N/A	ND	ND
CBGa	0.1 / 0.2	N/A	ND	ND
CBL	0.06 / 0.24	N/A	ND	ND
CBN	0.1 / 0.3	N/A	ND	ND
CBC	0.2 / 0.5	N/A	ND	ND
CBCa	0.07 / 0.28	N/A	ND	ND
SUM OF CANNABINOIDS			997.02 mg/g	99.702%

Unit Mass: 10 grams per Unit

$\Delta 9\text{THC}$ per Unit	1120 per-package limit	ND	PASS
Total THC per Unit		ND	
CBD per Unit		9945.60 mg/unit	
Total CBD per Unit		9945.60 mg/unit	
Sum of Cannabinoids per Unit		9970.20 mg/unit	
Total Cannabinoids per Unit		9970.20 mg/unit	

MOISTURE TEST RESULT

Not Tested

DENSITY TEST RESULT

Not Tested

VISCOSITY TEST RESULT

Not Tested





Terpenoid Analysis

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID). Terpenes are the aromatic compounds that endow cannabis with their unique scent and effect. Following are the primary terpenes detected.

Method: QSP 1192 - Analysis of Terpenoids by GC-FID

TERPENOID TEST RESULTS - 01/26/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
α Pinene	0.04 / 0.13	N/A	ND	ND
Camphene	0.1 / 0.2	N/A	ND	ND
Sabinene	0.1 / 0.2	N/A	ND	ND
β Pinene	0.1 / 0.2	N/A	ND	ND
Myrcene	0.1 / 0.2	N/A	ND	ND
α Phellandrene	0.1 / 0.2	N/A	ND	ND
3 Carene	0.1 / 0.2	N/A	ND	ND
α Terpinene	0.1 / 0.2	N/A	ND	ND
Limonene	0.04 / 0.12	N/A	ND	ND
Eucalyptol	0.1 / 0.2	N/A	ND	ND
Ocimene	0.05 / 0.1	N/A	ND	ND
γ Terpinene	0.1 / 0.2	N/A	ND	ND
Sabinene Hydrate	0.1 / 0.2	N/A	ND	ND
Fenchone	0.1 / 0.2	N/A	ND	ND
Terpinolene	0.04 / 0.1	N/A	ND	ND
Linalool	0.04 / 0.1	N/A	ND	ND
Fenchol	0.1 / 0.2	N/A	ND	ND
(-)-Isopulegol	0.03 / 0.08	N/A	ND	ND
Camphor	0.1 / 0.3	N/A	ND	ND
Isoborneol	0.1 / 0.2	N/A	ND	ND
Borneol	0.1 / 0.3	N/A	ND	ND
Menthol	0.04 / 0.1	N/A	ND	ND
Terpineol	0.03 / 0.1	N/A	ND	ND
Nerol	0.05 / 0.1	N/A	ND	ND
R-(+)-Pulegone	0.04 / 0.1	N/A	ND	ND
Geraniol	0.04 / 0.11	N/A	ND	ND
Geranyl Acetate	0.03 / 0.10	N/A	ND	ND
α Cedrene	0.03 / 0.10	N/A	ND	ND
β Caryophyllene	0.04 / 0.11	N/A	ND	ND
α Humulene	0.03 / 0.08	N/A	ND	ND
Valencene	0.02 / 0.06	N/A	ND	ND
Nerolidol	0.03 / 0.09	N/A	ND	ND
Caryophyllene Oxide	0.1 / 0.2	N/A	ND	ND
Guaiol	0.04 / 0.13	N/A	ND	ND
Cedrol	0.1 / 0.2	N/A	ND	ND
α Bisabolol	0.1 / 0.2	N/A	ND	ND
TOTAL TERPENOIDS			ND	ND



 **Pesticide Analysis**

CATEGORY 1 PESTICIDE TEST RESULTS - 01/27/2021  **PASS**

CATEGORY 1 AND 2 PESTICIDES

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS). *GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Aldicarb	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Carbofuran	0.02 / 0.05	≥ LOD	N/A	ND	PASS
Chlordane*	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Chlorfenapyr*	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Chlorpyrifos	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Coumaphos	0.02 / 0.07	≥ LOD	N/A	ND	PASS
Daminozide	0.02 / 0.07	≥ LOD	N/A	ND	PASS
DDVP (Dichlorvos)	0.03 / 0.09	≥ LOD	N/A	ND	PASS
Dimethoate	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Ethoprop(hos)	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Etofenprox	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Fenoxycarb	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Fipronil	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Imazalil	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Methiocarb	0.02 / 0.07	≥ LOD	N/A	ND	PASS
Methyl parathion	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Mevinphos	0.03 / 0.09	≥ LOD	N/A	ND	PASS
Paclobutrazol	0.02 / 0.05	≥ LOD	N/A	ND	PASS
Propoxur	0.03 / 0.09	≥ LOD	N/A	ND	PASS
Spiroxamine	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Thiacloprid	0.03 / 0.10	≥ LOD	N/A	ND	PASS

CATEGORY 2 PESTICIDE TEST RESULTS - 01/27/2021  **PASS**

Abamectin	0.03 / 0.10	0.1	N/A	ND	PASS
Acephate	0.02 / 0.07	0.1	N/A	ND	PASS
Acequinocyl	0.02 / 0.07	0.1	N/A	ND	PASS
Acetamiprid	0.02 / 0.05	0.1	N/A	ND	PASS
Azoxystrobin	0.02 / 0.07	0.1	N/A	ND	PASS
Bifenazate	0.01 / 0.04	0.1	N/A	ND	PASS
Bifenthrin	0.02 / 0.05	3	N/A	ND	PASS
Boscalid	0.03 / 0.09	0.1	N/A	ND	PASS
Captan	0.19 / 0.57	0.7	N/A	ND	PASS
Carbaryl	0.02 / 0.06	0.5	N/A	ND	PASS
Chlorantraniliprole	0.04 / 0.12	10	N/A	ND	PASS

Continued on next page



 **Pesticide Analysis** *Continued*

CATEGORY 2 PESTICIDE TEST RESULTS - 01/27/2021 *continued* ✔ PASS

CATEGORY 1 AND 2 PESTICIDES

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS). *GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Clofentezine	0.03 / 0.09	0.1	N/A	ND	PASS
Cyfluthrin	0.12 / 0.38	2	N/A	ND	PASS
Cypermethrin	0.11 / 0.32	1	N/A	ND	PASS
Diazinon	0.02 / 0.05	0.1	N/A	ND	PASS
Dimethomorph	0.03 / 0.09	2	N/A	ND	PASS
Etoxazole	0.02 / 0.06	0.1	N/A	ND	PASS
Fenhexamid	0.03 / 0.09	0.1	N/A	ND	PASS
Fenpyroximate	0.02 / 0.06	0.1	N/A	ND	PASS
Flonicamid	0.03 / 0.10	0.1	N/A	ND	PASS
Fludioxonil	0.03 / 0.10	0.1	N/A	ND	PASS
Hexythiazox	0.02 / 0.07	0.1	N/A	ND	PASS
Imidacloprid	0.04 / 0.11	5	N/A	ND	PASS
Kresoxim-methyl	0.02 / 0.07	0.1	N/A	ND	PASS
Malathion	0.03 / 0.09	0.5	N/A	ND	PASS
Metalaxyl	0.02 / 0.07	2	N/A	ND	PASS
Methomyl	0.03 / 0.10	1	N/A	ND	PASS
Myclobutanil	0.03 / 0.09	0.1	N/A	ND	PASS
Naled	0.02 / 0.07	0.1	N/A	ND	PASS
Oxamyl	0.04 / 0.11	0.5	N/A	ND	PASS
Pentachloronitrobenzene*	0.03 / 0.09	0.1	N/A	ND	PASS
Permethrin	0.04 / 0.12	0.5	N/A	ND	PASS
Phosmet	0.03 / 0.10	0.1	N/A	ND	PASS
Piperonylbutoxide	0.02 / 0.07	3	N/A	ND	PASS
Prallethrin	0.03 / 0.08	0.1	N/A	ND	PASS
Propiconazole	0.02 / 0.07	0.1	N/A	ND	PASS
Pyrethrins	0.04 / 0.12	0.5	N/A	ND	PASS
Pyridaben	0.02 / 0.07	0.1	N/A	ND	PASS
Spinetoram	0.02 / 0.07	0.1	N/A	ND	PASS
Spinosad	0.02 / 0.07	0.1	N/A	ND	PASS
Spiromesifen	0.02 / 0.05	0.1	N/A	ND	PASS
Spirotetramat	0.02 / 0.06	0.1	N/A	ND	PASS
Tebuconazole	0.02 / 0.07	0.1	N/A	ND	PASS
Thiamethoxam	0.03 / 0.10	5	N/A	ND	PASS
Trifloxystrobin	0.03 / 0.08	0.1	N/A	ND	PASS




 **Residual Solvents Analysis**

CATEGORY 1 RESIDUAL SOLVENTS TEST RESULTS - 01/27/2021  **PASS**

CATEGORY 1 AND 2 RESIDUAL SOLVENTS
 Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND	PASS
Benzene	0.03 / 0.09	1	N/A	ND	PASS
Chloroform	0.1 / 0.2	1	N/A	ND	PASS
Ethylene Oxide	0.3 / 0.8	1	N/A	ND	PASS
Methylene chloride	0.3 / 0.9	1	N/A	ND	PASS
Trichloroethylene	0.1 / 0.3	1	N/A	ND	PASS


CATEGORY 2 RESIDUAL SOLVENTS TEST RESULTS - 01/27/2021  **PASS**

Acetone	20 / 50	5000	N/A	ND	PASS
Acetonitrile	2 / 7	410	N/A	ND	PASS
Butane	10 / 50	5000	N/A	ND	PASS
Ethanol	20 / 50	5000	N/A	ND	PASS
Ethyl acetate	20 / 60	5000	N/A	ND	PASS
Ethyl ether	20 / 50	5000	N/A	ND	PASS
Heptane	20 / 60	5000	N/A	ND	PASS
Hexane	2 / 5	290	N/A	ND	PASS
Isopropyl Alcohol	10 / 40	5000	N/A	ND	PASS
Methanol	50 / 200	3000	N/A	ND	PASS
Pentane	20 / 50	5000	±14.9	297	PASS
Propane	10 / 20	5000	N/A	ND	PASS
Toluene	7 / 21	890	N/A	ND	PASS
Total Xylenes	50 / 160	2170	N/A	ND	PASS

 **Heavy Metals Analysis**

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

HEAVY METALS TEST RESULTS - 01/27/2021  **PASS**

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Cadmium	0.02 / 0.05	0.2	N/A	ND	PASS
Lead	0.04 / 0.1	0.5	N/A	ND	PASS
Arsenic	0.02 / 0.1	0.2	N/A	ND	PASS
Mercury	0.002 / 0.01	0.1	N/A	ND	PASS



 **Microbial Impurities Analysis**
 PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbial impurities.

Method: QSP 1221 - Analysis of Microbial Impurities

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbial impurities.

Method: QSP 6794 - Plating with 3M™ Petrifilm™

MICROBIAL IMPURITIES TEST RESULTS (PCR) - 01/27/2021 ✔ PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing <i>Escherichia coli</i>	Detect	ND	PASS
<i>Salmonella</i> spp.	Detect	ND	PASS
<i>Aspergillus fumigatus</i>	Detect	ND	PASS
<i>Aspergillus flavus</i>	Detect	ND	PASS
<i>Aspergillus niger</i>	Detect	ND	PASS
<i>Aspergillus terreus</i>	Detect	ND	PASS

MICROBIAL IMPURITIES TEST RESULTS (PLATING)

COMPOUND	RESULT (cfu/g)
Aerobic Plate Count	NT
Total Yeast and Mold	NT





NHS

Scottsdale, AZ.

Sample 254-032221-019

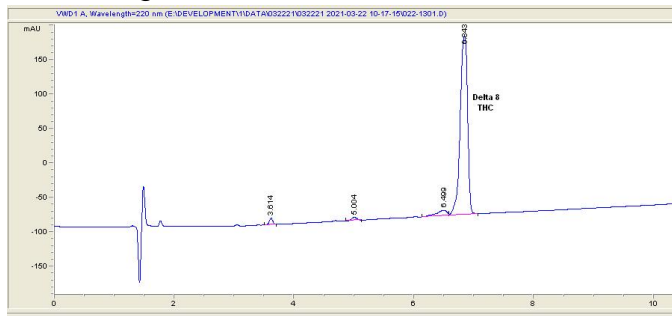
D8D-210317-B1

Sample Submitted: 03-22-2021; Report Date: 03-22-2021

D8D-210317-B1

Distillate

Chromatogram



Cannabinoid Profile



Cannabinoid Profile by HPLC

0.00%
Calculated THC Yield

0.00%
Calculated CBD Yield

93.20%
Total Cannabinoids

Cannabinoid	% wt	mg/g
Delta-8-THC	93.2	932.0
THC	0.0	0.0
Total Cannabinoids	93.20	932.0
Calculated THC Yield	0.00	0.00
Calculated CBD Yield	0.00	0.00

Calculated Maximum THC Yield = THC + 0.877 * THCA
 Calculated Maximum CBD Yield = CBD + 0.877 * CBDA

Marin Analytics, LLC

250 Bel Marin Keys Blvd, Suite D4
Novato, CA 94949

415-936-6477 / Support@MarinAnalytics.com

Sara Biancalana
Chief Scientist

This sample has been tested by Marin Analytics, LLC using valid testing methodologies and a quality system. Values reported relate only to the sample tested. Marin Analytics, LLC makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Marin Analytics, LLC.

BIOMASS DESCRIPTIONS - PULL REPORT and Example COA's

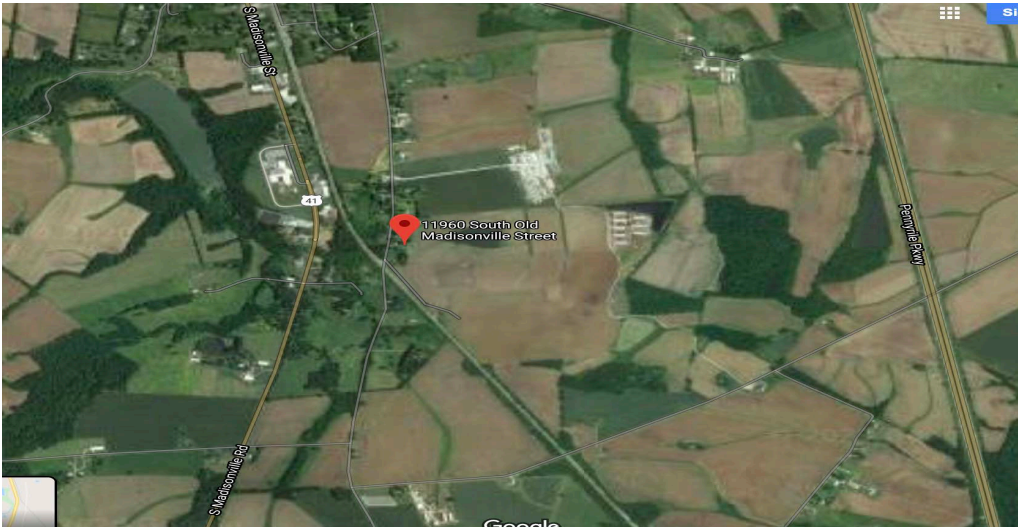


Figure 1 and 2

Photo of our farms and flower in Kentucky. We follow state and federal guidelines (including the new preliminary 2020 USGA laws) in regards to growing and potency levels. Pull report attached. Sample COA also attached. Figure 3 - One of our Farming locations in Kentucky

Ryan F. Quarles
Commissioner



Kentucky Department of Agriculture

Industrial Hemp Pilot Program
Office of Agriculture Marketing
111 Corporate Drive
Frankfort, KY 40601
Phone: (502) 573-0282, opt. 1
Fax: (502) 573-2543

September 24, 2018

REDACTED

Email Communication

RE: THC Test Results for Your 2018 Industrial Hemp Harvest

This letter is to notify you of the delta-9 THC test results for the pre-harvest sample(s) taken from your location(s) listed below. Not every sample collected by KDA staff will be selected for immediate testing. According to our THC Testing Protocol, (302 KAR 50:050) at least 50% of samples from non-Certified varieties and 5% of samples from Certified varieties will be selected for immediate testing. Please note the results of your samples in the table below. You will also find the lab results for each sample attached to this email (or enclosed with this letter).

	Plot Address	Location ID	Variety or Named Strain	Sample Date	KDA Sample ID	THC Test Results	ppm Test Results
1	427 William Lile Rd	Field 1	CBDRx Cherry	9/10/18	0506-091018-01	0.287%	2870 ppm
2	427 William Lile Rd	Field 2	CBDRx Cherry	9/10/18	0506-091018-02	0.269%	2690 ppm
3	11960 South Old Madisonville Rd	Field 3	CBDRx Cherry	9/10/18	0506-091018-03	0.173%	1730 ppm
4	11960 South Old Madisonville Rd	Field 4	CBDRx Cherry	9/10/18	0506-091018-04	0.287%	2870 ppm
5	11960 South Old Madisonville Rd	Field 5	CBDRx Cherry	9/10/18	0506-091018-05	0.303%	3030 ppm
6	11960 South Old Madisonville Rd	Field 6	CBDRx Cherry	9/10/18	0506-091018-06	0.212%	2120 ppm
7	11960 South Old Madisonville Rd	Field 1	CBDRx Cherry	9/10/18	0506-091018-07	0.292%	2920 ppm
8	11960 South Old Madisonville Rd	Field 2	CBDRx Cherry	9/10/18	0506-091018-08	0.283%	2830 ppm
9	14930 Consolation Loop	Greenhouse 13	CBDRx Cherry	9/10/18	0506-091018-09	0.167%	1670 ppm
10	14930 Consolation Loop	Greenhouse 14	CBDRx Cherry	9/10/18	0506-091018-10	0.2%	2000 ppm

The above test results indicate compliance with the delta-9 THC requirements. If other samples were taken from your plots that day, they were not selected for immediate testing and are assumed compliant. Your harvested materials from these plots above are eligible to proceed to the processor. You must wait for further results on any samples collected after the sample dates listed above.

The delta-9 THC content for plants and all hemp materials in the KDA Industrial Hemp Pilot Program should not exceed 0.3%, as outlined in 7 USC § 5940 (the 2014 Federal Farm Bill) and Kentucky Revised Statute 260.850. Remember, any industrial hemp material that enters commerce with a delta-9 THC content above 0.3% is outside the protection of the Federal Farm Bill and is subject to law enforcement action.

Please refer to the KDA document titled *Procedures for Sampling, THC Testing, and Post-testing Actions*, available on our website at www.kyagr.com/hemp, for full details about the protocol. If you have any questions or would like to discuss these results, you can contact me at Doris.Hamilton@ky.gov.

Respectfully,

A handwritten signature in blue ink that reads "Doris Hamilton". The signature is fluid and cursive, with a long horizontal stroke at the end.

Doris Hamilton
Industrial Hemp Program Manager

Enclosures (Lab Results)

Lic. #

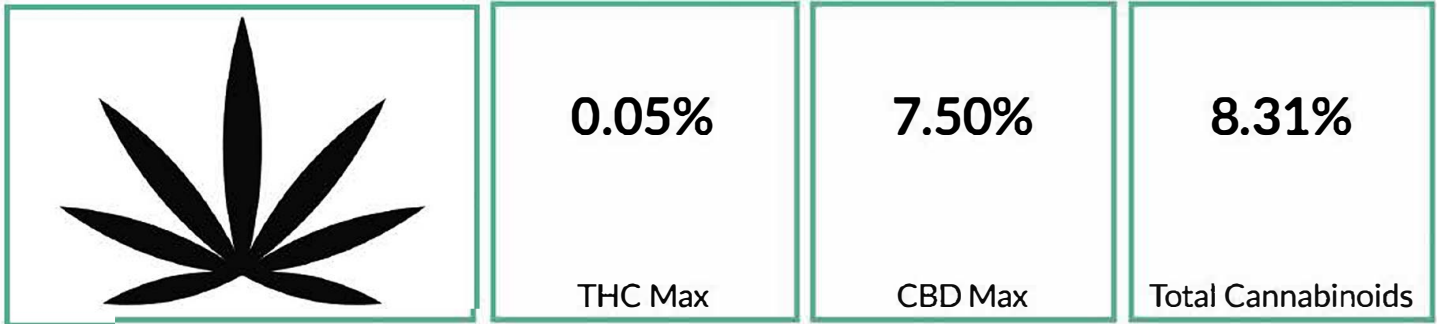
Sample: 1912DEL1665.6936

M. Ballard Hemp Biomass Bag #91

Plant, Flower - Cured
Lab Internal ID: 43421-2

Strain: Not Specified
Lot#: ; Batch#: ; Batch Size: - grams

Sample Received: 12/03/2019; Report Created: 12/05/2019
Testing Completed: 12/04/2019



Cannabinoids

Cannabinoid	LOQ	Concentration	Concentration	
	%	%	%	
CBDa	0.01	6.02	6.02	
CBG	0.01	ND	ND	
CBD	0.01	2.21	2.21	
THCV	0.01	ND	ND	
CBN	0.01	ND	ND	
Δ9-THC	0.01	ND	ND	
CBC	0.01	0.01	0.01	
THCa	0.01	0.06	0.06	
Total		8.31	8.31	

THC Max = THCa * 0.877 + Δ9-THC; CBD Max = CBDa * 0.877 + CBD; LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. ND = Not Detected; NT = Not Tested; NR = Not Reported



Lic. #

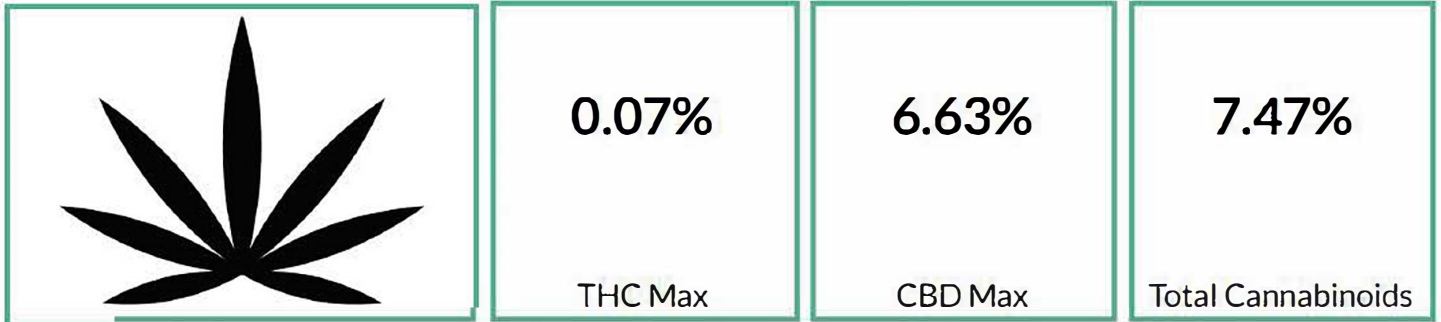
M. Ballard Hemp Biomass Bag #77

Plant, Flower - Cured
Lab Internal ID: 43421-1

Sample: 1912DEL1665.6935

Strain: Not Specified
Lot#: ; Batch#: ; Batch Size: - grams

Sample Received: 12/03/2019; Report Created: 12/05/2019
Testing Completed: 12/04/2019



Cannabinoids

Cannabinoid	LOQ	Concentration	Concentration	
	%	%	%	
CBDa	0.01	6.15	6.15	<div style="width: 6.15%;"></div>
CBG	0.01	ND	ND	
CBD	0.01	1.24	1.24	<div style="width: 1.24%;"></div>
THCV	0.01	ND	ND	
CBN	0.01	ND	ND	
Δ9-THC	0.01	ND	ND	
CBC	0.01	ND	ND	
THCa	0.01	0.08	0.08	<div style="width: 0.08%;"></div>
Total		7.47	7.47	

THC Max = THCa * 0.877 + Δ9-THC; CBD Max = CBDa * 0.877 + CBD; LOQ = Limit of Quantitation: The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. ND = Not Detected; NT = Not Tested; NR = Not Reported





Taxonomy/Genus Statement

To Whom It May Concern

Natural Hemp Solutions uses a proprietary clone of the Cannabis Sativa L Industrial Hemp plant. This ensures consistency throughout the extraction and purification process. The genus of Cannabis L is defined below.

- Kingdom Plantae Plants
- Subkingdom Tracheobionta Vascular plants
- Superdivision Spermatophyta Seed plants
- Division Magnoliophyta Flowering plants
- Class Magnoliopsida Dicotyledons
- Subclass Hamamelididae
- Order Urticales
- Family Cannabaceae Hemp family
- Genus Cannabis L. hemp P
- Species Cannabis sativa L.
- Subspecies Cannabis sativa L. ssp.
- Variety Cannabis sativa L. ssp. var. Cherry

Natural Hemp Solutions LLC.



Notice of Change Statement

To whom It may Concern

Natural Hemp Solutions have created a proprietary Super Critical CO₂ extraction and purification process for our Industrial Hemp Oil's and Isolates. If that process should ever change significantly we will notify our clients accordingly.

Natural Hemp Solutions LLC.

Allergen Information

D8 from CBD Isolate

We, NHS LLC., hereby inform you the allergen information for this product as follows ;

1	Cereals containing gluten	Absent
2	Crustaceans and products thereof	Absent
3	Eggs and products thereof	Absent
4	Fish and products thereof	Absent
5	Peanuts and products thereof	Absent
6	Soybeans and products thereof	Absent
7	Milk and products thereof	Absent
8	Nuts	Absent
9	Celery and products thereof	Absent
10	Mustard and products thereof	Absent
11	Sesame seeds and products thereof	Absent
12	Sulphur dioxide	Absent
13	Lupin and products thereof	Absent
14	Molluscs and products thereof	Absent


26-June-2019 Quality
Assurance Manager

Attached is your permit

THIS PERMIT MUST BE POSTED IN A CONSPICUOUS PLACE

Permit # KYF0050104168 Issued: 01/01/2021 Expires 12/31/2021

COMMONWEALTH EXTRACTS LLC
JOHN TAYLOR
6900 RIVERPORT DRIVE, STE D
LOUISVILLE, KY 40258

Cut Along This Line

County	CABINET FOR HEALTH AND FAMILY SERVICES	THIS PERMIT MUST BE POSTED
JEFFERSON	COMMONWEALTH	OF KENTUCKY IN A CONSPICUOUS PLACE
40,001 - 80,000 SQ FEET		
HEMP		



*****PERMIT TO OPERATE*****

AUTHORIZATION IS HEREBY GRANTED TO OPERATE A FOOD PROCESSING OR STORAGE ESTABLISHMENT
IN COMPLIANCE WITH KENTUCKY KRS 217.125

THIS PERMIT IS NON-TRANSFERABLE AND SHALL EXPIRE ON 12/31/2020

Location of Establishment if Different From Mailing Address

REDACTED

<p>PERMIT # KYF0050104168</p> <p>EXPIRATION DATE 12/31/2020</p>

Given under our hands on this date 01/01/2020

ANGELA T. DEARINGER, MD

COMMISSIONER OF KENTUCKY DEPARTMENT FOR PUBLIC HEALTH

ADAM M. MEIER / SECRETARY FOR HEALTH AND FAMILY SERVICES

(SDS) SAFETY DATA SHEET – Delta-8-Tetrahydrocannabinol

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SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER	DELTA-8-TETRAHYDROCANNABINOL
MANUFACTURER DETAILS	NHS
LOCATION	SCOTTSDALE, ARIZONA
PHONE NUMBER / EMERGENCY CONTACT	1 (844) 436-7647

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE NAME	DELTA-8-TETRAHYDROCANNABINOL	> 75% DELTA-8-TETRAHYDROCANNABINOL CAS-No. 5957-75-5
NOT A HAZARDOUS SUBSTANCE OR MIXTURE		

SECTION 3 – HAZARDOUS IDENTIFICATION

CLASSIFICATION	NOT A HAZARDOUS SUBSTANCE OR MIXTURE
GHS LABEL ELEMENTS	NOT A HAZARDOUS SUBSTANCE OR MIXTURE
HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS	NOT A HAZARDOUS SUBSTANCE OR MIXTURE

SECTION 4 – FIRST AID MEASURES

GENERAL	MOVE OUT OF DANGEROUS AREA
IF INHALED	MOVE INTO FRESH AIR - IF NOT BREATHING PROVIDE RESPIRATION
SKIN CONTACT	WASH WITH SOAP AND WATER
EYE CONTACT	FLUSH EYES WITH WATER

IF SWALLOWED	RINSE MOUTH WITH WATER
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MOST IMPORTANT SYMPTOMS
THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2) AND/OR SECTION 11.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY
N/A

SECTION 5 - FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA
USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL
CARBON DIOXIDES

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS
WEAR SELF-CONTAINED BREATHING APPARATUS FOR FIREFIGHTING IF NECESSARY

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
AVOID DUST FORMATIONS AND AVOID BREATHING VAPORS, MIST OR GAS. FOR PERSONAL PROTECTION SEE SECTION 8

ENVIRONMENTAL PRECAUTIONS
DO NOT LET PRODUCT ENTER DRAINS

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP
KEEP IN SUITABLE, CLOSE CONTAINER FOR DISPOSAL

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING
PROVIDE APPROPRIATE EXHAUST VENTILATION AT PLACES WHERE DUST IS FORMED. NORMAL MEASURES FOR PREVENTIVE FIRE PROTECTION. OR PRECAUTIONS SEE SECTION 2.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES
KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE. RECOMMENDED STORAGE TEMPERATURE IS 2-8°C

SPECIFIC END USE
NOTHING SPECIFIC APART FROM THE USES MENTIONED IN SECTION 1

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

CONTROL PARAMETERS
CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES
APPROPRIATE ENGINEERING CONTROLS
GENERAL INDUSTRIAL HYGIENE PRACTICE
INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT
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. INSPECT GLOVES PRIOR TO USE. USE CAUTION WHEN REMOVING GLOVES AND APPLYING GLOVES 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.
FULL/SPLASH CONTACT:
MATERIALS: NITRILE RUBBER MINIMUM LAYER THICKNESS: 0.11 MM BREAK THROUGH TIME: 480 MIN
BODY PROTECTION:
USE IMPERVIOUS CLOTHING. THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.
RESPIRATORY PROTECTION:
RESPIRATORY PROTECTION NOT REQUIRED.
ENVIRONMENTAL EXPOSURE CONTROLS:
DO NOT LET PRODUCT ENTER DRAINS.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL & CHEMICAL PROPERTIES	
PH	N/A
MELTING POINT/FREEZING POINT	MELTING POINT/RANGE: 69°C (156°F)
INITIAL BOILING POINT & RANGE	N/A

FLASH POINT	N/A
EVAPORATION RATE	N/A
FLAMMABILITY (SOLID, GAS)	N/A
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	N/A
VAPOR PRESSURE	N/A
VAPOR DENSITY	N/A
RELATIVE DENSITY	N/A
SOLUBILITY	N/A
PARTITION COEFFICIENT: N-OCTANOL/WATER	N/A
AUTO-IGNITION TEMPERATURE	N/A
DECOMPOSITION TEMPERATURE	N/A
VISCOSITY	N/A
EXPLOSIVE PROPERTIES	N/A
OXIDIZING PROPERTIES	N/A
APPEARANCE/FORM	Colored Transparent Oil
ODOR FORM	N/A
ODOR THRESHOLD	N/A

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY
N/A

CHEMICAL STABILITY
STABLE UNDER RECOMMENDED STORAGE CONDITIONS

POSSIBILITY OF HAZARDOUS REACTIONS
N/A

CONDITIONS TO AVOID
LIGHT

INCOMPATIBLE MATERIALS
STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS
HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS – CARBON OXIDES. OTHER DECOMPOSITION PRODUCTS N/A IN THE EVENT OF A FIRE: SEE SECTION 5

SECTION 11 – TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS	
ACUTE TOXICITY	INHALATION: N/A
DERMAL	N/A
SKIN CORROSION/IRRITATION	N/A
SERIOUS EYE DAMAGE/IRRITATION	N/A
RESPIRATORY/SKIN SENSITIZATION	N/A
GERM CELL MUTAGENICITY	N/A
CARCINOGENICITY	
IARC	NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THEN OR EQUAL TO .1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC
ACGIH	NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THEN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY ACGIH
NTP	NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THEN OR EQUAL TO .1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY NTP
OSHA	NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THEN OR EQUAL TO .1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY OSHA
REPRODUCTIVE TOXICITY	N/A
STOT - SINGLE EXPOSURE	N/A
STOT- REPEATED EXPOSURE	N/A
ASPIRATION HAZARD	N/A

SECTION 12 – ECOLOGICAL INFORMATION

PERSISTENCE & DEGRADABILITY	N/A
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BIOACCUMULATIVE POTENTIAL	N/A
MOBILITY IN SOIL	N/A
RESULTS OF PBT & VPVB ASSESSMENT	PBT/VPVB ASSESSMENT AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED
OTHER ADVERSE EFFECTS	VERY TOXIC TO AQUATIC LIFE

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL OF THE PRODUCT
CHEMICAL WASTE GENERATORS MUST DETERMINE WHETHER A DISCARDED CHEMICAL IS CLASSIFIED AS A HAZARDOUS WASTE. CHEMICAL WASTE GENERATORS MUST ALSO CONSULT LOCAL, STATE, AND NATIONAL HAZARDOUS WASTE REGULATIONS TO ENSURE COMPLETE ACCURATE CLASSIFICATION.

SECTION 14 – TRANSPORT INFORMATION

DOT (US)	NOT DANGEROUS GOODS
IMDG	NOT DANGEROUS GOODS
IATA	NOT DANGEROUS GOODS

SECTION 15 – REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATION

CONTACT FOR MORE INFORMATION. THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE CURRENT REQUIREMENTS. CAS-No. 13956-29-1

SECTION 16 – FURTHER INFORMATION / DISCLAIMER

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. NHS MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of the product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.