



Product Specification

Product: **BIO DANDRA PLEX**

Code Number: **3152**

Product Description: A unique and proprietary blend of fluid extracts in glycerin

Ingredients: Glycerin, Equisetum Arvense Extract, Lawsonia Inermis (Henna) Flower/Fruit/ , Leaf Extract, Rosmarinus Officinalis (Rosemary) Leaf , Extract, Urtica Dioica (Nettle) Leaf Extract, Chamomilla Recutita (Matricaria) Flower Extract, Humulus Lupulus (Hops) Extract, Symphytum Officinale Leaf Extract, Quassia Amara Wood Extract, Hamamelis Virginiana(Witch Hazel) Bark/, Leaf/Twig Extract, Geranium Maculatum Extract, Larrea divaricata extract, Arctium Lappa Root Extract, Juglans Nigra(Black Walnut) Shell Extract

Test	Specification	Method
PHYSICAL		
Appearance	Thin liquid	TM001-1-Visual
Color	Brown	TM001-2-Visual
Identification - FTIR	>0.95	TM002-1-FTIR
Odor	Compares to standard	TM001-3-Olefactory
Solid Content	50.00 - 65.00 %	TM003-10-Gravimetric
Solubility (in Water)	Partially (not tested)	TM004-3-Solubility
Specific Gravity	1.1550 - 1.2000 g/ml	TM003-11-SG
CHEMICAL		
pH	4.50 - 6.50	TM0007
MICROBIOLOGICAL		
Combined Yeast & Mold	<= 200 cfu/g	USP <2021>
E.coli	Absent in 10 g	USP <2022>
Salmonella	Absent in 10 g	USP <2022>
Staph. aureus	Absent in 10 g	USP <2022>
Total Aerobic Plate Count	<=500 cfu/g	USP <2021>
GENERAL		
Expiration Period	24 months	

NOTES:

Revision # 1
Effective Date: 1/26/2017

Product Specification

Product: BIO DANDRA PLEX

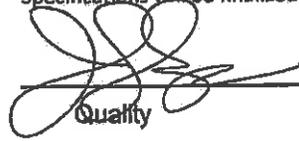
Code Number: 3152

Retest Date: 24 months

Packaging: 5 gallon HPDE pail with lid.

Store at room temperature away from humidity.

Specifications will be finalized after three production batches


Quality

1/26/17

Botanical Extracts
Tinctures
Nutraceuticals
Cosmetic Intermediates
Phytochemicals
Spray Drying
Product Development



SAFETY DATA SHEET

(1 of 5)

IDENTITY: Bio Dandra Plex II

CODE: # 3152

Rev 0

Section 1 – Product and Company Identification

Bio-Botanica, Inc.
75 Commerce Drive
Hauppauge, New York 11788
Telephone: (631) 231-5522
Fax: (631) 231-7332
Date: 01/24/2017

Section 2 – Hazards Identification:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): Not classified.

GHS Label elements: No labeling applicable.

OSHA Regulatory Status: This material is non-hazardous as defined by the American OSHA Hazard Communication Standard (29CFR 1910.1200)

Other Hazards: No additional information available.

Unknown Acute Toxicity (GHS-US): No data available.

Section 3 - Composition Information:

Definition/Botanical Origin: A unique and proprietary blend of the fluid extracts of Quassia, Horsetail Grass, Black Walnut Hulls, Burdock Root, Chaparral, Wild Alum, Witch Hazel, Henna, Rosemary, Hops, Chamomile, Nettles, and Comfrey in glycerin.

INGREDIENT	INCI	CAS	EINECS
Glycerin	<i>Glycerin</i>	56-81-5	200-289-5 (I)
Quassia Extract	<i>Quassia Amara Wood Extract</i>	84604-10-4	283-287-7 (I)
Horsetail Grass Extract	<i>Equisetum Arvense Extract</i>	71011-23-9	275-123-8 (I)
Black Walnut Hull Extract	<i>Juglans Nigra Shell Extract</i>	NA	NA
Burdock Root Extract	<i>Arctium Lappa Root Extract</i>	84012-13-5	281-658-8 (I)
Chaparral Extract	<i>Larrea Tridentata Extract</i>	NA	NA
Wild Alum Extract	<i>Geranium Maculatum Extract</i>	84650-10-2	283-491-6 (I)

BIO-BOTANICA. WHERE SCIENCE BRINGS OUT THE BEST OF NATURE™



75 Commerce Drive, Hauppauge, NY 11788 Local Tel: (631) 231-5522 Toll Free: (800) 645-5720 Fax: (631) 231-7332 www.bio-botanica.com

SAFETY DATA SHEET

Bio Dandra Plex II #3152 (2 of 5)

Witch Hazel Leaf Extract	<i>Hamamelis Virginiana Leaf Extract</i>	NA	NA
Neutral Henna Leaf Extract	<i>Lawsonia Inermis Leaf Extract</i>	84929-30-6	284-514-2 (I)
Rosemary Leaves Extract	<i>Rosmarinus Officinalis Leaf Extract</i>	84604-14-8	283-291-9 (I)
Hops Extract	<i>Humulus Lupulus Extract</i>	8016-25-9 8060-28-4	232-504-3 (I)
Chamomile Flowers Extract	<i>Chamomilla Recutita (Matricaria) Flower Extract</i>	84082-60-6	282-006-5 (I)
Nettle Leaves Extract	<i>Urtica Dioica Leaf Extract</i>	NA	NA
Comfrey Leaves Extract	<i>Symphytum Officinale Leaf Extract</i>	84696-05-9	283-625-3 (I)

Section 4 – First Aid Measures:

Inhalation: No vapors present at normal temperatures. If respiratory irritation occurs, remove individual to fresh air.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. If irritation persists, seek medical advice.

Skin Contact: No negative effects expected. Discontinue use of product. Wash thoroughly with soap & water. Apply cold compresses to affected areas to relieve any discomfort. If discomfort persists, contact a physician.

Ingestion: Accidental ingestion of large quantities of product may necessitate medical attention. The product is intended for external use.

Other: When assessing action take Risk & Safety Phrases into account.

Section 5 – Fire Fighting Measures:

Flash Point: Not applicable

Extinguishing Media: Use carbon dioxide, dry powder or foam type extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material. Avoid open flame and excessive temperatures.

Explosion Hazard: No applicable information has been found.

Special Measures: Keep away from sources of ignition.

Extinguishing Procedures: Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

Fire Fighting Instructions: Contact emergency personnel. Use self-contained breathing apparatus and full protective gear if large quantities of product are involved. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon and/or nitrogen, hydrocarbons and/or derivatives.

SAFETY DATA SHEET

Bio Dandra Plex II #3152 (3 of 5)

Section 6 – Accidental Release Measures:

Personal Precautions: Avoid contact with eyes. Note that spillages, if wet, constitute a slipping hazard. Use individual protective equipment (safety glasses) in case of major spillages.

Environment Precautions: Keep away from drains, soils, surface and ground water.

Clean Up Methods: Contain spoiled material. Cover with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Clean with hot water & detergents. Observe state, federal & local disposal regulations.

For Household Settings: Absorb liquid and scrub the area with detergent. Dilute with water.

For Non-Household Settings: Use safety glasses or safety goggles if splash hazard exists. Use gloves and other protective clothing to prevent skin contact.

Section 7 – Handling & Storage:

For Household Settings: No applicable information has been found.

For Non-Household Settings: No unusual handling or storage requirements. Storage in large quantities (as in warehouses) should be in a well-ventilated, cool area.

Precautions In Handling: Apply good manufacturing practices & industrial hygiene practices. Observe state, federal & local disposal regulations.

Storage Conditions: Store in tightly closed original container, in a cool & dry area away from heat sources & protected from light. Keep air contact to a minimum.

Fire Protection: The product is not flammable.

Section 8 – Exposure Controls / Personal Protection:

Control Parameters:

Glycerin (56-81-5)		
USA OSHA	OSHA PEL (TWA) (mg/ m³)	5 mg/m³

Respiratory Protection: No special measures under normal conditions.

Hand Protection: No special measures under normal conditions.

Eye Protection: Use safety glasses if there is a risk of splashing.

Work/Hygiene Practices: Wash hands with soap & water after handling.

Section 9 - Physical & Chemical Properties:

Appearance: Thin, brown liquid

Color: Brown

Odor: Characteristic

Specific Gravity: 1.1550 - 1.2000

Solubility in water: Soluble in water

Section 10 – Stability & Reactivity:

SAFETY DATA SHEET
Bio Dandra Plex II #3152 (4 of 5)

Reactivity: No significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.

Stability: Product is stable.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Section 11 – Toxicological Information:

No known data

NTP: No

IARC: No

OSHA: No

Section 12 – Ecological Information:

The product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spills. Packaging components are compatible with the conventional solid waste management practices. Additional information is available from the supplier upon request.

Biodegradability: Readily biodegradable. No known ecological effect.

Precautions: Prevent surface contamination of soil, ground & surface waters.

Section 13 – Disposal Considerations:

Dispose to sanitary drainage systems. Non-Hazardous Industrial Waste, follow applicable local, state & federal regulations

Section 14 – Transport Regulations:

Consult applicable regulations for transport information.

Road (ADR/RID) non hazardous; not regulated under US DOT

Air (IATA) non hazardous

Sea (IMDG) non hazardous

Chip: See section 15

Section 15 – Regulatory Information:

While the finished product is not considered hazardous as defined in 29 CFR 1910.1200 (d), this SDS contains valuable information critical to the safe handling and proper use of the product.

Hazards n/a

Symbols n/a

Risk Phrases n/a

SAFETY DATA SHEET

Bio Dandra Plex II #3152 (5 of 5)

Safety Safety Phrases S3/ S16/ S15 / S25

TSCA: All chemical ingredients are listed on the TSCA inventory or are not regulated.
SARA 313 chemicals None

US Federal

The product described in this SDS is regulated under the Federal Food, Drug, and Cosmetics Act and is safe to use as per directions on the container, box or accompanying literature (where applicable).

CERCLA reportable quantity (RQ): None

SARA 33/302/304/311/312 chemicals: None

Canada

All ingredients are CEPA approved for import to Canada. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR).

US States

State Right-To-Know:

The following ingredients are present in the finished product and are listed on the following state right-to-know lists:

Ingredient	CAS#	Level (%)	State			
			PA	RI	MN	MA
Glycerin	56-81-5	20-30				

Section 16 – Other Information:

References: Not available.

Other Special Considerations: Not available.

DISCLAIMER: This Safety Data Sheet is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Bio-Botanica to be dependable and is accurate to the best of the Company’s knowledge as of the date specified in Section 1 of this Safety Data Sheet. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material should evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Bio-Botanica assumes no responsibility for injury to the recipient or third persons, of for any damage to any property resulting from misuse of the product.

Botanical Extracts
Tinctures
Nutraceuticals
Cosmetic Intermediates
Phytochemicals
Spray Drying
Product Development



ALLERGEN STATEMENT

January 24, 2017

Product: Bio Dandra Plex II

Product Code # 3152

Bio-Botanica certifies that the allergens listed in Annex III of Cosmetic Regulation (EC) 1223/2009 are not present/present in **Bio Dandra Plex II #3152**.

Allergen	CAS	Yes/No
Amyl cinnamal	122-40-7	No
Benzyl alcohol	100-51-6	No
Cinnamyl alcohol	104-54-1	No
Citral	5392-40-5	No
Eugenol	97-53-0	No
Hydroxycitronellal	107-75-5	No
Isoeugenol	97-54-1	No
Amylcinnamyl alcohol	101-85-9	No
Benzyl salicylate	118-58-1	No
Cinnamal	104-55-2	No
Coumarin	91-64-5	No
Geraniol	106-24-1	Yes (Hops)
Hydroxyisohexyl 3-cyclohexene carboxaldehyde	31906-04-4	No
Anise alcohol	105-13-5	No
Benzyl cinnamate	103-41-3	No
Farnesol	4602-84-0	No
Butylphenyl methylpropional	80-54-6	No
Linalool	78-70-6	Yes (Chamomile, Hops, Rosemary)
Benzyl benzoate	120-51-4	No
Citronellol	106-22-9	No
Hexyl cinnamal	101-86-0	No
Limonene (d-alpha)	5989-27-5	Yes (Chamomile, Hops, Rosemary)
Methyl 2-octynoate	111-12-16	No
Alpha-isomethyl ionone	127-51-5	No
Evernia prunastri (oakmoss) extract	90028-68-5	No
Evernia furfuracea (treemoss) extract	90028-67-4	No

Danielle Peters
Regulatory Associate
Bio-Botanica Inc.



BIO-BOTANICA. WHERE SCIENCE BRINGS OUT THE BEST OF NATURE™

75 Commerce Drive, Hauppauge, NY 11788 Local Tel: (631) 231-5522 Toll Free: (800) 645-5720 Fax: (631) 231-7332 www.bio-botanica.com

Compositional Breakdown

January 24, 2017

Product: Bio Dandra Plex II

Product Code # 3152

MATERIAL NAME	INCI NAME	CAS #	EINECS	Amount (%)
Glycerin	<i>Glycerin</i>	56-81-5	200-289-5 (I)	20-30%
Quassia Extract	<i>Quassia Amara Wood Extract</i>	84604-10-4	283-287-7 (I)	5-15%
Horsetail Grass Extract	<i>Equisetum Arvense Extract</i>	71011-23-9	275-123-8 (I)	5-15%
Black Walnut Hull Extract	<i>Juglans Nigra Shell Extract</i>	NA	NA	5-15%
Burdock Root Extract	<i>Arctium Lappa Root Extract</i>	84012-13-5	281-658-8 (I)	5-15%
Chaparral Extract	<i>Larrea Tridentata Extract</i>	NA	NA	5-15%
Wild Alum Extract	<i>Geranium Maculatum Extract</i>	84650-10-2	283-491-6 (I)	5-15%
Witch Hazel Leaf Extract	<i>Hamamelis Virginiana Leaf Extract</i>	NA	NA	5-15%
Neutral Henna Leaf Extract	<i>Lawsonia Inermis Leaf Extract</i>	84929-30-6	284-514-2 (I)	<5%
Rosemary Leaves Extract	<i>Rosmarinus Officinalis Leaf Extract</i>	84604-14-8	283-291-9 (I)	<5%
Hops Extract	<i>Humulus Lupulus Extract</i>	8016-25-9 8060-28-4	232-504-3 (I)	<5%
Chamomile Flowers Extract	<i>Chamomilla Recutita (Matricaria) Flower Extract</i>	84082-60-6	282-006-5 (I)	<5%
Nettle Leaves Extract	<i>Urtica Dioica Leaf Extract</i>	NA	NA	<5%
Comfrey Leaves Extract	<i>Symphytum Officinale Leaf Extract</i>	84696-05-9	283-625-3 (I)	<5%



Danielle Peters
Regulatory Associate
Bio-Botanica Inc.

