

# **Product Technical Dossier**

Product	Spinach Extract 50:1
CCL Product Code	P11362

# Specification Details

	Specification	Method
Means of Identification	Positive	HPTLC
Appearance	Fine Powder	
Colour	Light Yellow	
Aroma	Characteristic	
Flavour	Characteristic	
Sieve Analysis % passed	100% pass 80 mesh	
Loss on Drying	Max 5%	
Ash	Max 10%	
Bulk Density	0.4-0.6 g/ml	
Impurities/Residual Solvents	Complies with EP	

# Microbiological Limits

Total Viable Count	Max 10,000 cfu/g	
Yeasts & Moulds	Max 1,000 cfu/g	
E. Coli	Negative/10g	
Salmonella	Negative/25g	

# Heavy Metal Limits

Lead (Pb)	Max 3ppm	
Cadmium (Cd)	Max 1ppm	
Mercury (Hg)	Max 0.1ppm	
Arsenic (As)	Max 1ppm	

Product Code: P11362















Version: 1









Page 1 of 14





### Additional Technical Information

Raw Material Full Botanical / Chemical Name	Spinacia oleracea
Part Used	Leaf
The material is Food Grade	Yes
Ratio of Material	50:1
Solvent used	Water and Ethanol
Cultivated / Wild	Cultivated
Harvest Method	Manual
Harvest Period	Summer
Harvest Stage (age of the plant)	n/a
Country of Origin	China
Country of Manufacture	China
Solubility in Alcohol	Partly soluble
Solubility in Water	Partly soluble
Shelf Life from Date of Manufacture	Min 3 years
Suitable for Vegetarians?	Yes
Suitable for Vegans?	Yes
Storage Conditions	This material is to be stored in a tightly sealed bag/container and to be kept in a cool place away from moisture and direct sunlight

# Composition Origin, Function and Percentages

Ingredients	Function	% composition	Source
Spinach Extract	Food supplement	100%	Spinacia oleracea

# **Nutritional Data**

Test	Value per 100g
Energy kJ / Kcal	1590kJ/378Kcal
Fat (g)	0.6
-Of which Saturates (g)	-
Carbohydrate (g)	91.2
-Of which Sugars (g)	-
Fibre (g)	-
Protein (g)	1.0
Salt (g)	-

The allergen information is supplied by the manufacturer, we have not tested for each individual allergen to ensure they are not present. The information given is based on a documented risk assessment and is accurate to the best of our knowledge. If you intend to make a voluntary "free from" claim on your pack, additional testing may need to be carried out. For technical and labelling guidance you should always speak to the competent authority for the market or member state in which the final products are placed.

Product Code: P11362















Version: 1











Page 2 of 14





Allergens	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	Where applicable, is there risk of cross- contamination? YES/NO or N/A
Peanuts and Peanut Derivatives (including possible cross contamination)	NO	NO	
Nut and Nut Derivatives Almond (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoiesis (Wangenh.), K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia vera), Macadamia nut and Queensland nut (Macadamia ternifolia)	NO	NO	
Sesame Seeds and Sesame Seed Derivatives	NO	NO	
Milk and Milk Derivatives (including lactose)	NO	NO	
Egg and Egg Derivatives	NO	NO	
Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITH Gluten (wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barley grass)	NO	NO	
Soya and Soya Derivatives	NO	NO	
Lupin and Lupin Derivatives	NO	NO	
Mustard and Mustard Derivatives	NO	NO	
Celery or Celery Derivatives (including Celeriac)	NO	NO	
Fish and Fish Derivatives	NO	NO	
Molluscs and their Derivatives	NO	NO	
Crustaceans and their Derivatives	NO	NO	
Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or 10mg/litre	NO	NO	

Additives / Contaminants / Dietary Requirements / Intolerances	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	Where applicable, is there risk of cross- contamination? YES/NO or N/A
Additives / E Numbers	NO	NO	
Antioxidants	NO	NO	
Ethylene Oxide	NO	NO	
Gelatine	NO	NO	
Flavourings (Artificial / Nature Identical / Natural / Smoked)	NO	NO	
Maize / Corn and any Derivatives	NO	NO	
Legumes / Pulses	NO	NO	
Rice and Rice Derivatives	NO	NO	
Added Salt	NO	NO	
Added Sugar / artificial or natural sweeteners	NO	NO	
Aspartame	NO	NO	
BHA / BHT (E320 / E321)	NO	NO	
Caffeine	NO	NO	
Colours (Artificial / Nature Identical / Natural / Smoked)	NO	NO	
Dextrose	NO	NO	
other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds)	NO	NO	
Kiwi fruit	NO	NO	
Polyols (sugar alcohols)	NO	NO	
grape fruit	NO	NO	
Sorbic Acid (E200, E203)	NO	NO	
Any other Preservatives	NO	NO	
Ethanol	YES	YES	Residual solvent complies with EP
Honey	NO	NO	
Lactose	NO	NO	
Yeast and Yeast Derivatives	NO	NO	
All Animal Products (Beef, Pork, Poultry or other) and Derivatives (which may include growth/yield hormones, antibiotics etc.)	NO	NO	
Bovine Products or Derivatives (which may include growth/yield hormones, antibiotics etc.)	NO	NO	

Product Code: P11362

Version: 1

Page 3 of 14



























# Statements

Confirmation of BSE / TSE Status  This is to certify that this product complies with all relevant current UK and EU Legislative requirements in regard to Transmissible Spongiform Encephalopathies (TSE) and Bovine Spongiform Encephalopathy (BSE) for human food, and so is free of TSE/BSE.	Yes
This is also to certify that, during the course of their manufacture, the above-mentioned product did not come into contact with any materials, which could be derived from TSE/BSE risk materials.	Yes
Confirmation of GM Status  This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under current regulations.	Yes
Confirmation of Non-Irradiation Status  This is to certify that this product, whole or in part, has not been subjected to Ionising Radiation as per European Directives.	Yes
Confirmation of Nandrolone Status  This is to certify that this product, whole or in part, has not come into contact with Nandrolone or any of its precursors in any way.	Yes
Confirmation of IOC Product Status  This is to certify that this product, whole or in part, has not come into contact with any product/s, which is banned by the IOC (International Olympics Committee) and or WADA.	Yes
Confirmation of Animal Testing Status  This is to certify that all the products sold by Cambridge Commodities have not been tested on animals in any part of its manufacture in accordance with current regulations.	Yes
Confirmation of Pesticides Status  This is to certify that the above-mentioned product complies with the EU max residue limits (MRLs) on pesticides.	Yes
Confirmation of Nanoparticles Status  This is to certify that unless otherwise stated, the above-mentioned product is free of nanoparticles.  Commission Recommendation, defines as follows: "Nanomaterial" means a natural, incidental or manufactured material containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50 % or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm - 100 nm".	Yes
Packaging Status  We hereby certify that the packaging used in the above mentioned material conforms to EU regulations and subsequent amendments on food grade packaging	Yes
Confirmation of PAH status  This is to certify that the above-mentioned product complies with the max PAH limits set by the EU regulations	Yes

Product Code: P11362















Version: 1









Page 4 of 14





# **Product Flow Chart**

Spinach

Extracting

Concentrating

Spray Drying

Dry Extract

Grinding and Sifting

Mixing

Packing

Product Code: P11362

















Version: 1









Page 5 of 14



Lancaster Way Business Park Ely, Cambridgeshire, CB6 3NX, UK +44 (0) 1353 667258 mail@c-c-l.com www.c-c-l.com

# P11362 - Spinach Extract 50:1

### **Cambridge Commodities**

Version No: 1.1 Safety Data Sheet (Conforms to Regulation (EU) No 2015/830) Chemwatch Hazard Alert Code: 0

Issue Date: **12/04/2018** Print Date: **12/04/2018** S.REACH.GBR.EN

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1. Product Identifier

Product name	P11362 - Spinach Extract 50:1
Synonyms	Not Available
Other means of identification	Not Available
CAS number	Not Available

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

Relevant identified uses	Use according to manufacturer's directions.
Uses advised against	Not Applicable

# 1.3. Details of the supplier of the safety data sheet

Registered company name	Cambridge Commodities
Address	Lancaster Way Business Park Ely Cambridgeshire CB6 3NX United Kingdom
Telephone	+44 1353 667258
Fax	+44 1353 667289
Website	https://www.c-c-l.com/
Email	info@c-c-l.com

### 1.4. Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

### **SECTION 2 HAZARDS IDENTIFICATION**

# 2.1. Classification of the substance or mixture

Classification according to	
regulation (EC) No 1272/2008	Not Applicable
[CLP] <sup>[1]</sup>	

### 2.2. Label elements

Hazard pictogram(s)	Not Applicable
SIGNAL WORD	NOT APPLICABLE

# Hazard statement(s)

Not Applicable

### Supplementary statement(s)

Chemwatch: 9-530206 Page 7 of 14 Issue Date: 12/04/2018 Version No: 1.1 Print Date: 12/04/2018

### P11362 - Spinach Extract 50:1

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

2.3. Other hazards

REACh - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

### 3.1.Substances

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP]
1.Not Available 2.Not Available 3.Not Available 4.Not Available	100	P11362 - Spinach Extract 50:1	Not Applicable

Legend: 1. Classified by Chemwatch; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI 4. Classification drawn from C&L

3.2.Mixtures

See 'Information on ingredients' in section 3.1

### **SECTION 4 FIRST AID MEASURES**

# 4.1. Description of first aid measures

Eye Contact	► Generally not applicable.
Skin Contact	► Generally not applicable.
Inhalation	► Generally not applicable.
Ingestion	► Generally not applicable.

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

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

Treat symptomatically.

### **SECTION 5 FIREFIGHTING MEASURES**

# 5.1. Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

### 5.2. Special hazards arising from the substrate or mixture Fire Incompatibility None known

Fire incompatible	None known.
5.3. Advice for firefighters	
Fire Fighti	Slight hazard when exposed to heat, flame and oxidisers.
Fire/Explosion Haza	Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place.  Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures. This may create a secondary hazard.

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

### 6.2. Environmental precautions

See section 12

Version No: 1.1 P11362 - Spinach Extract 50:1

# 6.3. Methods and material for containment and cleaning up

Minor Spills	Clean up all spills immediately. Secure load if safe to do so. Bundle/collect recoverable product. Collect remaining material in containers with covers for disposal.
Major Spills	<ul> <li>Minor hazard.</li> <li>Clear area of personnel.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear physical protective gloves e.g. Leather.</li> <li>Contain spill/secure load if safe to do so.</li> <li>Bundle/collect recoverable product and label for recycling.</li> <li>Collect remaining product and place in appropriate containers for disposal.</li> <li>Clean up/sweep up area.</li> <li>Water may be required.</li> </ul>

### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
Fire and explosion protection	See section 5
Other information	► Store away from incompatible materials.

# 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards.  If repackaging is required ensure the article is intact and does not show signs of wear. As far as is practicably possible, reuse the original packaging something providing a similar level of protection to both the article and the handler.		
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. None known		

### 7.3. Specific end use(s)

See section 1.2

### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

# 8.1. Control parameters

DERIVED NO EFFECT LEVEL (DNEL)

Not Available

PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
P11362 - Spinach Extract 50:1	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
P11362 - Spinach Extract 50:1	Not Available		Not Available	

### 8.2. Exposure controls

8.2.1. Appropriate engineering	Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use.
controls	Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be

Issue Date: 12/04/2018

Print Date: 12/04/2018

Chemwatch: 9-530206 Page 9 of 14

Version No: 1.1

Page 9 of 14 Issue Date: 12/04/2018

P11362 - Spinach Extract 50:1

### released to the environment

### 8.2.2. Personal protection

Eye and face protection







- - Safety glasses.Safety glasses with side shields.
  - Chemical goggles.
  - Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

No special equipment for minor exposure i.e. when handling small quantities.

### OTHERWISE:

- Safety glasses with side shields.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
- Safety glasses with side shields
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed an a clean environment only after workers have washed hands the properties of the proper

	thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities.  OTHERWISE:  Overalls.  Barrier cream.  Eyewash unit.
Thermal hazards	Not Available

### Respiratory protection

Respiratory protection not normally required due to the physical form of the product.

### 8.2.3. Environmental exposure controls

See section 12

### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	article	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

Chemwatch: 9-530206 Page 10 of 14 Version No: 1.1

P11362 - Spinach Extract 50:1

Issue Date: 12/04/2018 Print Date: 12/04/2018

### 9.2. Other information

Not Available

### **SECTION 10 STABILITY AND REACTIVITY**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

### **SECTION 11 TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects

	•			
Inhaled	The material is not thought to produce adverse health efform Nevertheless, good hygiene practice requires that exposu			
Ingestion	The material has <b>NOT</b> been classified by EC Directives o corroborating animal or human evidence.	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	The material is not thought to produce adverse health efform Nevertheless, good hygiene practice requires that exposu			
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).			
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.			
P11362 - Spinach Extract 50:1	TOXICITY	IRRITATION		
	Not Available Not Available			
	TOXICITY	IRRITATION		
P11362 - Spinach Extract 50:1	Not Available Not Available			
Legend:	Value obtained from Europe ECHA Registered Substated     data extracted from RTECS - Register of Toxic Effect of c		from manufacturer's SDS. Unless otherwise specified	
	0	Carcinogenicity	0	
Acute Toxicity				
Acute Toxicity Skin Irritation/Corrosion	0	Reproductivity	0	
		Reproductivity STOT - Single Exposure	0	
Skin Irritation/Corrosion	0	· · · · · · · · · · · · · · · · · · ·		

Legend:

X − Data available but does not fill the criteria for classification
✓ − Data available to make classification

O - Data Not Available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

# 12.1. Toxicity

ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Not Available	Not Available	Not Available	Not Available	Not Available
ENDPOINT	TEST DUPATION (HP)	SDECIES	VALUE	SOURCE
	` '		111-0-	Not Available
Not Available	Not Available	NOL AVAIIADIE	Not Available	NOT Available
		Not Available  Not Available  ENDPOINT  TEST DURATION (HR)	Not Available Not Available Not Available ENDPOINT TEST DURATION (HR) SPECIES	Not Available Not Available Not Available Not Available Not Available ENDPOINT TEST DURATION (HR) SPECIES VALUE

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

# 12.2. Persistence and degradability

Page **11** of **14** 

P11362 - Spinach Extract 50:1

Issue Date: **12/04/2018**Print Date: **12/04/2018** 

\_\_\_\_\_

No Data available for all ingredients

No Data available for all ingredients

### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation	
	No Data available for all ingredients	

# 12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

### 12.5.Results of PBT and vPvB assessment

	P	В	Т
Relevant available data	Not Available	Not Available	Not Available
PBT Criteria fulfilled?	Not Available	Not Available	Not Available

### 12.6. Other adverse effects

No data available

### **SECTION 13 DISPOSAL CONSIDERATIONS**

### 13.1. Waste treatment methods

Product / Packaging disposal	Recycle wherever possible or consult manufacturer for recycling options.     Consult State Land Waste Management Authority for disposal.
Waste treatment options	Not Available
Sewage disposal options	Not Available

### **SECTION 14 TRANSPORT INFORMATION**

# Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

# Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1.UN number	Not Applicable		
14.2.UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	Class Not Applicable Subrisk Not Applicable		
14.4.Packing group	Not Applicable		
14.5.Environmental hazard	Not Applicable		
14.6. Special precautions for user	Hazard identification (Kemler) Not Applicable Classification code Not Applicable Hazard Label Not Applicable Special provisions Not Applicable Limited quantity Not Applicable		

### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	ICAO/IATA Class Not Applicable ICAO / IATA Subrisk Not Applicable ERG Code Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions  Cargo Only Packing Instructions	Not Applicable  Not Applicable	

Chemwatch: 9-530206 Page 12 of 14 Issue Date: 12/04/2018 Version No: 1.1 Print Date: 12/04/2018

P11362 - Spinach Extract 50:1

Cargo Only Maximum Qty / Pack	Not Applicable
Passenger and Cargo Packing Instructions	Not Applicable
Passenger and Cargo Maximum Qty / Pack	Not Applicable
Passenger and Cargo Limited Quantity Packing Instructions	Not Applicable
Passenger and Cargo Limited Maximum Qty / Pack	Not Applicable

### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	IMDG Class     Not Applicable       IMDG Subrisk     Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS Number Not Applicable Special provisions Not Applicable Limited Quantities Not Applicable		

### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	Not Applicable Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions Limited quantity Equipment required	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### **SECTION 15 REGULATORY INFORMATION**

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

### P11362 - SPINACH EXTRACT 50:1(NOT AVAILABLE) IS FOUND ON THE FOLLOWING REGULATORY LISTS

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008 and their amendments

### 15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

# **ECHA SUMMARY**

Not Applicable

Not Applicable	
National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	Υ
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	Υ
Korea - KECI	Υ
New Zealand - NZIoC	Υ

Chemwatch: 9-530206 Page 13 of 14 Issue Date: 12/04/2018 Version No: 1.1 Print Date: 12/04/2018

### P11362 - Spinach Extract 50:1

Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory  N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

### **SECTION 16 OTHER INFORMATION**

Revision Date	12/04/2018

### Full text Risk and Hazard codes

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered. For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

Powered by AuthorITe, from Chemwatch.



# **Change History**

Version	Change	Customer Notification required Yes / No
1	First Issue	N/A

# **Document Approval**

Originator Job Title	Quality Specialist	Approver Job Title	QC Team Leader
Casey White Casey White (Apr 12, 2018)		Ash Bean Ash Bean (Apr 13, 2018)	

Product Code: P11362















Version: 1









Page 14 of 14





# P11362 - Spinach Extract 50.1 - Technical Dossier

Adobe Sign Document History

04/13/2018

Created: 04/12/2018

By: Casey White (casey.white@c-c-l.com)

Status: Signed

Transaction ID: CBJCHBCAABAArauh9Fw81zpDoG\_ZH-6zJv9jmHNc63au

# "P11362 - Spinach Extract 50.1 - Technical Dossier" History

- Document uploaded by Casey White (casey.white@c-c-l.com) from Acrobat 04/12/2018 3:51:54 AM PDT- IP address: 81.145.42.226
- Document e-signed by Casey White (casey.white@c-c-l.com)

  Signature Date: 04/12/2018 3:59:17 AM PDT Time Source: server- IP address: 81.145.42.226
- Document emailed to Ash Bean (ash.bean@c-c-l.com) for signature 04/12/2018 3:59:18 AM PDT
- Document viewed by Ash Bean (ash.bean@c-c-l.com)
  04/12/2018 6:52:37 AM PDT- IP address: 205.217.25.189
- Document e-signed by Ash Bean (ash.bean@c-c-l.com)

  Signature Date: 04/13/2018 1:55:17 AM PDT Time Source: server- IP address: 81.145.42.226