



## Safety Data Sheet

### 01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

Product Name						Grapefruit Seed Extract.					
Biological Definition						A broad-spectrum, antimicrobial compound produced from the seeds and pulp of Citrus grandis. Blended with Glycerin and stabilised with Ascorbic Acid.					
INCI Name						Citrus Grandis Seed Extract & Glycerine & Ascorbic Acid & Aqua					
Synonyms & Trade Names						-					
CAS-No		N/A		EC No.		N/A		EINECS No.		N/A	
<b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>											
Used in the food industry as a preservative and antioxidant. Used in the cosmetics industry as a preservative and antimicrobial agent.											
<b>1.3 Details of the supplier of the safety data sheet</b>											
Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1											
<b>1.4 Emergency Tel. No.</b>				604-540-8700 (Monday-Friday 8:30 am-4:30 pm)							

### 02. HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>											
Not classed as a hazardous substance.											
Classification (EC 1272/2008)											
Not classed as a hazardous substance.											
<b>2.2 Label Elements</b>											
Label in accordance with (EC) No 1272/2008											
None.											
Signal Word						None.					
Contains						Contains no hazardous substances.					
Hazard Statements											
None.											
Precautionary Statements											
None.											
Supplementary Precautionary Statements											
None.											
<b>2.3 Other Hazards</b>											
PBT or vPvB according to Annex XIII						No additional data available.					
Adverse physio-chemical properties						No additional data available.					
Adverse effects on human health						No additional data available.					

### 03. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Approx. 50.0% **Glycerine (Cas No. 56-81-5)**  
Approx. 25.0% **Citrus Grandis Seed Extract (Cas No. 90045-43-5/8016-20-4)**  
>10.0 - <25.0% **Aqua**  
3.0 – 4.5% **Ascorbic Acid (50-81-7 / 62624-30-0)**

### 04. FIRST AID MEASURES

#### 4.1 Description of first aid measures

Inhalation	Move the exposed person to fresh air at once. Seek medical attention if any discomfort continues.
Ingestion	Seek medical attention immediately. Rinse mouth and drink plenty of water. Do not induce vomiting.
Skin Contact	Remove contaminated clothing. Wash skin with soap and water. Seek medical attention if any discomfort continues.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Seek medical attention immediately. Continue to rinse.

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

No additional data available.

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

Treat symptomatically.

### 05. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

Extinguishing media: Water Spray. Dry Chemical Powder. Foam.

Unsuitable extinguishing media: Do not use direct water jet burning material.

#### 5.2 Special hazards arising from the product

Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Risk of toxic pyrolysis.

#### 5.3 Advice for firefighters

Standard measures in line with fire safety regulations. Wear positive pressure self-contained breathing apparatus & protective clothing. Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

### 06. ACCIDENTAL RELEASE MEASURES

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

Avoid inhalation and direct contact with skin and eyes. Note that spillages constitute a slipping hazard. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.

#### 6.2 Environmental Precautions

Do not discharge into drains, water courses or onto the ground. Dispose of in line with Local authority guidelines.

#### 6.3 Methods and material for containment and cleaning up.

Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations. If spillage on water occurs; Remove from the surface with suitable adsorbent material. Disposal according to UK/EU Environmental regulations.

<b>6.4 Reference to other sections</b>
Sections 8 and 13.

## 07. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>
Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>
Store in tightly closed original container, in a cool (max room temperature) dry & ventilated area away from heat sources. Protect from freezing and direct sunlight. Keep away from naked flames and sources of ignition. Intrusion into the soil to be avoided. Take precautions to avoid static discharges in working area.
<b>7.3 Specific end use(s)</b>
No additional data available.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1 Control parameters</b>	
None.	
<b>8.2 Exposure controls</b>	
Protective Equipment	
No special measures required.	
Process Conditions	No special measures required.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	Avoid breathing product vapour. Use adequate ventilation.
Hand Protection	Use chemically resistant gloves if there is a risk of direct contact or splashing.
Eye Protection	Wear safety glasses or face shield to protect from risk of splashing.
Other Protection	Slip proof shoes may be worn in event of spillages.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Wash hands with soap and water after handling.
Personal Protection	Avoid breathing in product vapours. Wear appropriate clothing to prevent possibility of skin and eye contact.
Skin Protection	Wear appropriate clothing to prevent possibility of skin contact.
Environmental Exposure Controls	Avoid discharging into drainage water.

## 09. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	Clear, viscous mobile liquid.
Colour	Yellow/brown.
Odour	Characteristic.
Relative Density	1.197 - 1.245 @ 20°C
Flash Point (°C)	No additional data available.
Refractive Index	No additional data available.
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	No additional data available.
Solubility in Water @20°C	Soluble.
Auto-ignition	No additional data available.

temperature (°C)	
<b>9.2 Other information</b>	
No additional data available.	

## **10. STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	
Generally stable. It presents no significant reactivity hazards, by itself or in contact with water.	
<b>10.2 Chemical stability</b>	
Stable under the recommended handling and storage conditions.	
<b>10.3 Possible hazardous reactions</b>	
No additional data available.	
<b>10.4 Conditions to Avoid</b>	
Keep away from ignition sources, high temperatures (especially near flash point) and open flames.	
<b>10.5 Incompatible materials</b>	
Avoid contact with strong acids, alkalis and oxidising agents.	
<b>10.6 Hazardous Decomposition Products</b>	
Does not decompose at proper handling.	

## **11. TOXOLOGICAL INFORMATION**

<b>11.1 Information on toxicological effects</b>	
Acute Toxicity	No additional data available.
Skin corrosion / irritation	No additional data available.
Serious eye damage / irritation	No additional data available.
Respiratory or skin sensitisation	No additional data available.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	No additional data available.
Reproductive toxicity	No additional data available.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Aspiration hazard	No additional data available.
Photo-toxicity	No additional data available.
Other Information	None.

## **12. ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>	
No additional data available.	
<b>12.2 Persistence &amp; degradability</b>	
No additional data available.	
<b>12.3 Bioaccumulation Potential</b>	
No additional data available.	
<b>12.4 Mobility in soil</b>	
No additional data available.	

<b>12.5 Results of PBT and vPvB Assessment</b>
No additional data available.
<b>12.6 Other adverse effects</b>
Do not allow product to enter streams, sewers or other waterways.

### 13. DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>
Collect and dispose of waste product in accordance with local authority guidelines. Product remainders should not intrude soil or waters. Uncontaminated containers may be recycled.

### 14. TRANSPORT INFORMATION

<b>14.1 UN number</b>	
UN No. Road	Not bound by transport regulations.
UN No. SEA	Not bound by transport regulations.
UN No. AIR	Not bound by transport regulations.
<b>14.2 UN proper shipping name</b>	
Not bound by transport regulations.	
<b>14.3 Transport hazard class(es)</b>	
Not bound by transport regulations.	
<b>14.4 Packing group</b>	
No additional data available.	
<b>14.5 Environmental hazards</b>	
No hazard label necessary – non hazardous product.	
<b>14.6 Special precautions for user</b>	
See sections 6 – 8.	
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>	
Not defined	

### 15. REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
<p><u>Statutory Instruments</u> The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716)</p> <p><u>Guidance Notes</u> Workplace Exposure Limits EH40. CHIP for everyone HSG(108).</p> <p><u>EU Legislation</u> Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.</p>
<b>15.2 Chemical safety assessment</b>
No additional data available.

### 16. OTHER INFORMATION

Hazard and/or Precautionary	None - non hazardous product
-----------------------------	------------------------------

Statements in Full	
Other Information	None
Revision Date	January 6, 2017
Reason for revision	Updated composition details
Rev No/Repl, SDS Generated	02

**DISCLAIMER:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Hughes & Co Ltd, Suite 512, 10 Market Street, Camana Bay, Grand Cayman, KY1-9006, Cayman Islands.