NATURAL SOURCING™
Specialists in Cosmeceutical Ingredients

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MATERIAL SAFETY DATA SHEET

GRAPEFRUIT SEED EXTRACT

MSDS

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name:	**GRAPEFRUIT SEED EXTRACT**
Product Use:	Personal Care Formulations
Company Name:	Natural Sourcing
Company Address:	341 Christian Street, Oxford, CT 06478, USA
Date Issued:	03/03/2014
Emergency Telephone Number:	Chemtrec Tel: (800) 262-8200

2. COMPOSITION/INGREDIENT INFORMATION

Chemical Family:	Bioflavonoids / Ascorbics
CAS No:	84696-38-8; 90045-43-5
Components:	Citrus Grandis Extract: 90045-43-5 Ascorbic Acid: 50-81-7 Glycerin: 56-81-5
CTFA/INCI Name:	Grapefruit Seed Extract
Chemical Formula:	60% active/40% inert
Active Ingredients	
Grapefruit Seed Extract	40%-45.0%
Vitamin C (Ascorbic acid)	15%-20.0% (max) (primary source of Vitamin C is from the extract)
	60.0%
Inert Ingredients	37.0-40.0%
Glycerin (USP 97.7 and kosher) Moisture	0.0- 3.0% (max)
	40.0%
	100.0%

Hazard Classification (99):	%	TLV
Not applicable	0	N/A

3. HAZARDS IDENTIFICATION

Emergency Overview:	**If ingested, drink large quantities of water or milk. Do not induce vomiting.**
Eyes:	Avoid contact with eyes. Likely to cause severe eye irritation.
Skin:	Avoid prolonged contact at full strength due to low pH of product. May cause skin irritation.
Inhalation:	Avoid breathing vapour when heating.
Ingestion:	DO NOT INGEST. NOT FOR HUMAN CONSUMPTION.

4. FIRST AID MEASURES

Eyes:	Flush eyes with water for at least 15 minutes. Seek medical attention immediately.
Skin:	Wash skin with soap and water. Rinse skin thoroughly with water for at least 15 minutes.
Ingestion:	DO NOT INDUCE VOMITING! Give milk and / or egg white beaten in water. Avoid all alcohol. Call a physician at once.
Inhalation:	Remove from contaminated area to fresh clean air.
Medical Conditions Generally Aggravated by Exposure:	None

5. FIRE FIGHTING MEASURES

Flash Point (Method Used):	292°F
Flammable Limits	
LEL:	Not Established
UEL:	Not Established
Extinguishing Media:	Foam, Water Fog, Carbon Dioxide, or Dry Chemical
Special Firefighting Procedures:	Water of foam may cause frothing, which can be violent and possibly endanger the life of the fire-fighter, especially if sprayed into containers of hot, burning liquid. Wear self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode when fighting fires.
Unusual Fire & Explosion Hazards:	Never use welding or cutting torch on / near drum. Residue may ignite.
Hazard Thermal Decomposition Products:	Not known

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Personal Precautions:	Wear protective gloves, aprons, and chemical splash goggles.
Environmental Precautions:	Advise authorities if product enters sewers.
Methods for Cleaning Up:	Avoid contacting other materials. All spills should be absorbed with sawdust, sand, paper towels, or an equivalent absorbent. The absorbent materials should then be removed and incinerated. Final treatment of the area should be cleaned with soap and water. Do not spill into water stream. This product, at full strength, is toxic to fish.

7. HANDLING AND STORAGE

Handling	
Safe Handling:	Wear protective gloves and aprons. Chemical splash goggles are recommended. Clean contaminated equipment thoroughly.
Storage	
Requirements for Storage Areas and Containers:	Store in cool, dry well ventilated storage area.
Other:	
	Non-corrosive liquid.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Eye:	Chemical splash goggles in compliance with OSHA regulations are advised.
Skin/Body:	Wear resistant gloves such as; natural rubber & protective aprons.

Respiratory:	A NIOSH / MSHA approved air supplied respirator is advised if prolonged exposure without proper ventilation is unavoidable. OSHA regulations also permit other NIOSH / MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering or administrative controls should be implemented to reduce exposure.
Ventilation:	Provide sufficient mechanical (general and / or local exhaust) ventilation to avoid unhealthy exposure.
Other:	Evaluate need based on application.
Work/Hygiene Practice:	N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Heavy, viscous liquid
Color:	Yellow to golden brown
Odor:	Mild citrus
pH: (10% solution)	1.5-3.0
Vapor Pressure (mm Hg.):	N/A
Vapor Density (AIR = 1):	4.1
Freezing Point:	20.0°F/-6.67˚C
Melting Point:	N/A
Specific Gravity: (@25°C)	1.10-1.30
Solubility in Water:	Soluble
Volatile:	Non-Volatile

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions
Incompatibility (Materials to Avoid):	Strong oxidising agents
Hazardous Decomposition or Byproducts:	Polymerization will not occur
Conditions to Avoid:	Extreme Heat

11. TOXICOLOGICAL INFORMATION

OSHA TLV:	N/A
ACCIN TLV:	N/A
Carcinogen NTP:	No
ARC:	No
OSHA:	No
Toxicity: (*conducted during product development only)	• Acute oral LD50 in white rats 5,000 mg/kg • Acute inhalation LC50 in rabbits and guinea pigs at 250 mg m3 slight increase in serum alkaline phosphate levels.
Skin:	• Irritant when tested according to method 16CFR 1500.41 • (Does) meet the criteria to corrosiveness 49CFR 173.240 (a) (1)
Sensitivity:	• (Does Not) produce allergic sensitisation in a substantial number of people.
Symptoms of Exposure:	• Severe eye irritation and mucous irritation when used directly.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Do not spill into water stream. This product, at full strength, is toxic to fish.

Environmental Fate:	Based largely or completely on information for primary material (glycerin). Biodegradable under aerobic conditions. Biodegradation is expected to be acheivable in a secondary wastewater treatment plant.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:	Grapefruit Seed Extract is classified as a non-corrosive liquid and should be disposed of in accordance with all local, state, and federal regulations. Do NOT allow entry into sewers or any body of water. For unused and uncontaminated product: The preferred options include sending to a licensed, permitted: Recycler, Reclaimer, Incinerator or other Thermal Destruction Device.

14. TRANSPORT INFORMATION

DOT Classification:	Not Regulated Material
IATA Classification:	This product is not considered as dangerous goods.
IMDG Classification:	This product is not considered as dangerous goods.

15. REGULATORY INFORMATION

UNITED STATES (TSCA)	All ingredients are on the TSCA Chemical Substance Inventory
DSL (Canadian Domestic Substance List):	All ingredients are listed on the Canadian DSL
OSHA Hazard Communication Standard, 29 CFR 1910.1200, Hazard Summary:	Physical Data: None Health Hazards: None
WHMIS Classification:	Non-controlled (Nonhazardous)
CERCLA and SARS Regulations (40 CFR 355, 370, and 372):	This material contains the following chemicals subject to the reporting requirements of SARA 313: No SARA 313 Chemicals for this product.
SARA 311 / 312 Hazard Categories:	Immediate: NO Delayed: NO Fire: NO Pressure: NO Reactivity: NO
State Regulations:	California Proposition 65: Not a Prop. 65 material

16. ADDITIONAL INFORMATION

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.