



Material safety data sheet
According to EU Regulation 1907/2006 in the current version
Grapefruit Seed Extract

1. Identification of the substance/mixture and company

Trade name:	Grapefruit Seed Extract
Chemical Family	Bioflavonoids / Ascorbics
Chemical Formula	60% active/40% inert
CAS No. :	84696-38-8; 90045-43-5
EINESCS/EC No. :	215-288-5
REACH pre-registration No. :	-
Utilization:	Raw material for cosmetic or professional use
Supplier company identification:	Elemental SRL , Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.elemental.eu
Emergency:	RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București. International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification

Hazard Classification (99): % TLV
Not applicable

3. Declaration of ingredients

3.1 Components

Citrus Grandis Extract: 90045-43-5
Ascorbic Acid: 50-81-7
Glycerin: 56-81-5

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



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LEL: Not Established

UEL: Not Established

5.1 Extinguishing Media

Foam, Water Fog, Carbon Dioxide, or Dry Chemical

5.2 Special Firefighting Procedures

Water or 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.

5.3 Unusual Fire & Explosion Hazards

Never use welding or cutting torch on / near drum. Residue may ignite.

5.4 Hazard Thermal Decomposition Products

Not known

6. Accidental release measures

6.1 Personal Precautions

Wear protective gloves, aprons, and chemical splash goggles.

6.2 Environmental Precautions

Advise authorities if product enters sewers.

6.3 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

7.1 Handling

Safe Handling: Wear protective gloves and aprons. Chemical splash goggles are recommended. Clean contaminated equipment thoroughly.

7.2 Storage

Requirements for Storage Areas and Containers: Store in cool, dry well ventilated storage area.

Other: Non-corrosive liquid.

8. Exposure controls / 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: mA NIOSH / MSHA approved air supplied respirator is advised if mprolonged exposure without proper



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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

10.1 Stability

Stable under normal conditions

10.2 Incompatibility (Materials to Avoid)

Strong oxidising agents

Hazardous Decomposition or Byproducts: Polymerization will not occur

10.3 Conditions to Avoid

Extreme Heat

11. Toxicological information

OSHA TLV: N/A

ACCIN TLV: N/A

Carcinogen NTP: No

ARC: No

OSHA: No

11.1 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.



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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

12.1 Ecotoxicity

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

12.2 Environmental Fate

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

13. Disposal considerations

13.1 Waste Disposal Methods

Grapefruit Seed Extract is classified as a non-corrosive liquid and should mbe disposed of in accordance with all local, state, and federal regulations. Do NOT allow entry into sewers or any body of water.

13.2 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



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WHMIS Classification: Non-controlled (Nonhazardous)

CERCLA and SARA 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

16.1 Abbreviations

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.