

Grapefruit seed extract (GSE) Safety Data Sheet

According to regulation (EC) No 1907/2006	Revision date 02/2016
SECTION 1: Identification	
1.1. Identification	
Product Name CAS #	Grapefruit seed extract (GSE) RN 90045-43-5
1.2. Recommended use and restrictions on u	ISE
Recommended Use	Preservative in cosmetic formulations.
1.3. Supplier	
Camden-Grey Essential Oils, Inc. 5751 Halifax Ave., Unit 2 Fort Myers, FL 33912 <u>www.camdengrey.com</u>	
1.4. Emergency telephone number	
Emergency number: Chemtrec -1.800.424.9300/ 1	.703.527.3887 CCN330
SECTION 2: Hazard(s) identification	
Hazard classification of the chemical: Signal Word: Pictograms: Precautionary Statement: Description of any hazards not otherwise classified	Non-Flammable, Non-Toxic, Non-Hazardous N/A N/A <u>Eves</u> : Severe eye irritation if used directly <u>Skin</u> : Avoid prolonged contact at full strength due to low pH of product <u>Inhalation</u> : Avoid breathing vapor at full strength if heated Ingestion: DO NOT INGEST. NOT FOR HUMAN CONSUMPTION : N/A
SECTION 3: Composition/information or	n ingredients
3.1. Substance	
Chemical Name: Common Name and synonyms: CAS#: Impurities and stablizing additives, which are themselves classified and which contribute to the classification of the chemical: Mixtures:	Citrus Granáis (Grapefruit) Seed Extract Grapefruit Seed Extract RN 90045-43-5 Ascorbic acid (CAS# 50-81-7) N/A
SECTION 4: First-aid measures	
This section describes the initial care that should be g information consists of:	viven by untrained responders to an individual who has been exposed to the chemical. The required
Necessary first-aid instructions by relevant rou	ites of exposure (inhalation, skin and eye contact, ingestion)
Inhalation: Skin contact: Eve contact: Ingestion:	Remove individual to fresh air. Proper ventilation is suggested for persons that are allergic of sensitive. Keep container closed when not in use. Rinse with large amounts of water. Flush with large amounts of water. Get medical attention. If swallowed DO NOT INDUCE VOMITING. Give milk and / or egg whites beaten in water. Avoid all alcohol. Call a physician at once.
Description of the most important symptoms o	r effects, and any symptoms that are acute or delayed.
Inhalation: Skin contact: Eve contact:	Shortness of breath. Should be restored with fresh air. Prolonged contact could result in burning due to the low PH of the product. Treat as a chemical bum. Severe eye irritation can occur if used directly. Seek medical attention immediately.
Ingestion:	DO NOT INGEST! NOT FOR HUMAN CONSUMPTION.
Recommendations for immediate medical care	and special treatment needed, when necessary: N/A

SECTION 5: Fire-fighting measures

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This section provides recommendations for fighting a fire caused by the chemical. The required information consists of:

Recommendations of suitable extinguishing equipment, and information about extinguishing equipment that is not appropriate for a situation.

Flash point:	292 deg F
Extinguishing media:	Foam, water fog, carbon dioxide, or dry chemical

Advice on specific hazards that develop from the chemical during the fire, such as any hazardous combustion products created when the chemical burns.

Fire-fighting procedures:	Water of foam may cause frothing, which can be violent and possibly endanger 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 torch or cutting torch on / near drum. Residue may ignite.

Recommendations on special protective equipment or precautions for firefighters. All protective equipment and precautions are mentioned in the previous subsections.

SECTION 6: Accidental release measures

This section provides recommendations on the appropriate response to spills, leaks, or releases, including containment and cleanup practices to prevent or minimize exposure to people, properties, or the environment. The required information may consist of recommendations for:

Use of personal precautions (such as removal of ignition sources or providing sufficient ventilation) and protective equipment to prevent the contamination of skin, eyes, and clothing

Avoid contacting other materials. Avoid strong oxidizing agents.

Emergency procedures, including instructions for evacuations, consulting experts when needed, and appropriate protective clothing. Grapefruit seed extract (GSE) is classified as a non-corrosive liquid. Reasonable and prudent care should be exercised during any cleanup efforts.

Methods and materials used for containment.

Avoid contact with other materials. Containment will occur along with cleanup procedures.

Cleanup procedures.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with strong oxidizing agents. Use reasonable care when handling. Eating, drinking, and smoking near product should be prohibited.

7.2. Conditions for safe storage, including any incompatibilities

Avoid contact with strong oxidizing agents. Store upright in a cool, dry place.

SECTION 8: Exposure controls/personal protection

This section indicates the exposure limits, engineering controls, and personal protective measures that can be used to minimize worker exposure. The required information consists of:

OSHA Permissable Exposure Limits (PELs), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

OSHA PEL Total Dust: 15 mg / m3 OSHA PEL Respirable fraction 5 mg / m3

Appropriate engineering controls (e.g., use local exhaust ventilation, or use only an enclosed system).

Provide sufficient mechanical (general and / or local exhaust) ventilation to avoid unhealthy exposure.

Recommendations for personal protective measures to prevent illness or injury from exposure to chemicals, such as personal protective equipment (PPE) (e.g., appropriate types of eye, face skin or respiratory protection needed based on hazards and potential exposure).

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). Safety glasses and nitrile gloves are recommended to minimize exposure. Engineering or administrative controls should be implemented to reduce exposure.

Any special requirements for PPE, protective clothing or respirators (e.g., type of glove material, such as PVC or nitrile rubber gloves; and breakthrough time of the glove material).

Nitrile gloves are recommended to avoid latex irritation

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Appearance (physical state, color, etc.): Upper/lower flammability or explosive limits: Odor:

Vapor Pressure:

Viscous liquid. Yellow to golden brown. LEL & UEL Not Applicable. Slight citrus odor

	P in mm Hg	1	10	40	100	400	760		
	T in deg C	125.5	167.2	198.0	220.1	263.0	290.0		
Odor TI	Odor Threshold:			Not available					
Vapor Density:			3.17 (H ₂ O=1)						
pH:			1.50 – 3.00						
Specific Gravity / Density:			1.10 – 1.30						
Melting / Freezing point:			20 deg F						
Solubility:			Misc in water, insolubility in chloroform						
Boiling point:			290 deg C						
Flash point:				193 deg C / 379.4 deg F					
Evaporation rate:				Not available					
Flammability (solid, gas):				Not available					
Partition coefficient: n-octanol/water:				Not available					
Auto-ignition temperature:				400 deg C / 752 deg F					
Decomposition temperature:				290 deg C					
Viscosity:				Not available					
		1							

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapor mixes readily with air. Decomposes on exposure to temperature rise: release of toxic, corrosive, combustible gases / vapor. Upon combustion CO and C02 are formed. May polymerize on exposure to temperature rise. Reacts violently with (strong) oxidizers: (increased) risk of fire / explosion. Reacts with (some) acids: (increased) risk of fire / explosion.

10.2. Chemical stability

Hygroscopic. Otherwise stable under normal ambient temperatures and recommended conditions.

Description of any stabilizers that may be needed to maintain chemical stability.

Not Applicable

Indication of any safety issues that may arise should the product change in physical appearance.

None Known 10.3. Other

Indication of the possibility of hazardous reactions, including a statement whether the chemical will react or polymerize, which could release excess pressure or heat, or create other hazardous conditions. Able to polymerize above 149 deg C. Decomposes when heated above 290 deg C.

List of all conditions that should be avoided (e.g., static discharge, shock, vibrations, or environmental conditions that may lead to hazardous conditions).

None known.

List of all classes of incompatible materials (e.g., classes of chemicals or specific substances) with which the chemical could react to produce a hazardous situation.

Reacts violently with strong oxidants

List of any known or anticipated hazardous decomposition products that could be produced because of use, storage, or heating. Low toxicity in original state and not considered hazardous to human beings. On heating / burning: release of toxic / combustible gases / vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact). The SDS should indicate if the information is unknown.

Acute:	
Skin:	Irritant when tested according to method 16 CFR 1500.41 (patch test).
Eye:	May cause slight transient (temporary) eye irritation.
Oral:	LD_{50} in rats 5,000 mg / kg.
Inhalation:	LC ₅₀ in rabbits 250 mg/m3

Description of the delayed, immediate, or chronic effects from short- and long-term exposure. Chronic / other effects: None Observed

The numerical measures of toxicity (e.g., acute toxicity estimates such as LD50 (median lethal dose)) - the estimated amount (of a substance) expected to kill 50% of test animals in a single dose.

See subsection 1 above: LD_{50} in rats 5,000 mg / kg.

Description of symptoms. This description includes the symptoms associated with exposure to the chemical including symptoms from the lowest to the most severe exposure.

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Skin sensitization:

respiratory tract.

Respiratory irritation:

Skin irritation / corrosion: Can be irritating to the skin. Eye irritation: Can be irritating t

Can be irritating to the eyes. Can be harmful if absorbed through skin.

Can be harmful if inhaled. Can be irritating to the

Avoid exposure to mist.

Indicate of whether the chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest editions) or found to be a potential carcinogen by OSHA.

Carcinogenicity: Mutagenicity: Not Carcinogenic Not Mutagenic

SECTION 12: Ecological information

Ecological Information (non - mandatory) This section intentionally left blank

SECTION 13: Disposal considerations

13.1. Disposal methods

Disposal Considerations (non — mandatory) This section intentionally left blank

SECTION 14: Transport information

Transportation Information (non - mandatory) This section intentionally left blank

SECTION 15: Regulatory information

Regulatory Information (non - mandatory) This section intentionally left blank

SECTION 16: Other information

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