GRAPEFRUIT SEED EXTRACT – SAFETY DATA SHEET

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

PRODUCT IDENTIFIER

Product name	Grapefruit Seed Extract
Use	Preservative in Cosmetic Formulations

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier name	PureNature
Address	626A Rosebank Road, Avondale, Auckland 1026 New Zealand
Telephone	+649 8135619
Website	www.purenature.co.nz
Email	info@purenature.co.nz

EMERGENCY TELEPHONE NUMBER

Association / Organisation	Not Available
Emergency telephone numbers	111
Other emergency telephone numbers	0800 764 766

SECTION 2 HAZARDS IDENTIFICATION

Hazard classification of the chemical: Non-Flammable, Non-Toxic, Non-Hazardous

Signal Word: N/A

Pictograms: N/A

Precautionary Statement: Eyes: severe eye irritation if used directly. Skin: Avoid prolonged contact at full strength due to low pH of product. Inhalation: Avoid breathing vapor at full strength if heated. Ingestion: Do not Ingest. Not for Human Consumption.

Description of any hazards not otherwise classified: N/A

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

INCI name	CAS No.
Citrus Grandis (Grapefruit) Seed Extract	90045-43-5

Impurities and stabilizing additives, which are themselves classified and which contribute to the classification of the chemical: Ascorbic acid (CAS# 50-81-7)

SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

Necessary first-aid instructions by relevant routes of exposure (inhalation, skin and eye contact, ingestion)	Inhalation: Remove individual to fresh air. Proper ventilation is suggested for persons that are allergic or sensitive. Keep container closed when not in use. Skin contact: Rinse with large amounts of water. Eye contact: Flush with large amounts of water. Get medical attention. Ingestion: 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 or effects, and any symptoms that are acute or delayed.	Inhalation: Shortness of breath. Should be restored with fresh air. Skin contact: Prolonged contact could result in burning due to the low PH of the product. Treat as a chemical burn. Eye contact: Severe eye irritation can occur if used directly. Seek medical attention immediately. Ingestion: DO NOT INGEST! NOT FOR HUMAN CONSUMPTION.

In case of doubt or if the symptoms persist, always consult a doctor NEVER give anything by mouth to an unconscious person.

SECTION 5 FIREFIGHTING MEASURES

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 particular situation.
Flash point: 292°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

Methods and materials used for containment: Avoid contact with other materials. Containment will occur along with clean-up procedures.

Clean-up 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

Handling	Precautions for safe handling, including recommendations for handling incompatible chemicals, minimizing the release of the chemical into the environment, and providing advice on general hygiene practices. Avoid contact with strong oxidizing agents. Use reasonable care when handling. Eating, drinking and smoking near product should be prohibited.
Storage	Recommendations on the conditions for safe storage, including any incompatibilities. Provide advice on specific storage requirements. Avoid contact with strong oxidizing agents. Store upright in a cool, dry place

SECTION 8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

OSHA Permissible 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 / m^3
OSHA PEL Respirable fraction 5 mg / m^3

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

Appearance	Viscous liquid, yellow to golden brown	Boiling Point	290°C
Upr/Lwr Flammability or Explosive limits	Not applicable	Flash Point	193°C / 379.4°F
Odour	Slight citrus odour	Evaporation Rate	Not available
Odour threshold	Not available	Flammability (solid, gas)	Not applicable
Vapour density	3.17 (H_2O = 1)	Partition coef: n-octanol/water	Not available
pH	1.50 – 3.00	Auto-ignition temperature	400°C / 752°F
Specific Gravity / Density	1.10 – 1.30	Decomposition temperature	290°C
Solubility	Misc in water, insol in chloroform	Viscosity	Not available
Vapour Pressure	P in mmHg : 1 10 40 100 400 760		
	Temp°C : 125.5 167.2 198.0 220.1 263.0 290.0		

SECTION 10 STABILITY AND REACTIVITY

Reactivity
Description of the specific test data for the chemical. This data can be for a class or family of the chemical if such data adequately represent the anticipated hazard of the chemical, where available:

Vapor mixes readily with air. Decomposes on exposure to temperature rise: release of toxic, corrosive, combustible gases / vapor. Upon combustion CO and CO2 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.

Chemical Stability
Indication of whether the chemical is stable or unstable under normal ambient temperature and conditions while in storage and being handled: 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

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°C. Decomposes when heated above 290°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 / vapours.

SECTION 11 TOXICOLOGICAL INFORMATION

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.

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 LD_{50} (median lethal dose)) – the estimated amount (of a substance) expected to kill 50% of test animals in a single dose. Not known

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

Skin irritation/corrosion: Can be irritating to the skin. Eye irritation: Can be irritating to the eyes. Skin sensitization: Can be harmful if absorbed through skin. Respiratory irritation: Can be harmful if inhaled. Can be irritating to the respiratory tract. 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: Not Carcinogenic Mutagenicity: Not Mutagenic

SECTION 12 ECOLOGICAL INFORM ATION

This section intentionally left blank

SECTION 13 DISPOSAL CONSIDER ATION

Waste Material: Place material and / or absorbent into sealed containers and dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice.

SECTION 14 TRANSPORT INFORMATION

Non-Flammable, Non-Toxic, Non-Hazardous

SECTION 15 REGULATORY INFORMATION

Not available.

SECTION 16 OTHER INFORMATION

The information contained in this Safety Data Sheet is obtained from current and reliable sources. PureNature provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product but does not claim to be all inclusive. This document is intended only as a guide to the appropriate handling of this material.

Version: 01 Revision Date: 04/05/2020: PIL SDS Change of address - no changes to SDS.