

# Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Trade name: P-50SD Grapefruit Seed Extract

## Section 1: Identification

1. **Product Identifier used on the label and any other common names or synonyms by which the substance is known.**

P-50SD Grapefruit Seed Extract

2. **Name, address, phone number of the manufacturer, importer, or other responsible party, and emergency phone number.**

P-50, Inc.  
160 Concord Drive, Casselberry, FL. 32707  
Tel: 407-831-4519  
Fax: 407-830-6037  
Email: [info@chemiep50.com](mailto:info@chemiep50.com)

3. **Recommended use of the chemical and any restrictions on use.**

P-50SD Grapefruit Seed Extract is to be used as a preservative in cosmetic formulations.

## Section 2: Hazard Identification

1. **Hazard classification of the chemical:** Non-Flammable, Non-Toxic, Non-Hazardous
2. **Signal Word:** N/A
3. **Pictograms:** N/A
4. **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
5. **Description of any hazards not otherwise classified:** N/A

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## Section 3:    **Composition / Information on Ingredients**

### Substances:

1. **Chemical Name:**     Citrus Grandis (Grapefruit) Seed Extract
2. **Common Name and synonyms:**     P-50SD Grapefruit Seed Extract
3. **CAS#:**             RN 90045-43-5
4. **Impurities and stabilizing additives, which are themselves classified and which contribute to the classification of the chemical:**     Ascorbic acid (CAS# 50-81-7)

Mixtures:     N/A

## Section 4:    **First – Aid Measures**

This section describes the initial care that should be given by untrained responders to an individual who has been exposed to the chemical. The required information consists of:

### **1. 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.

### **2. 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.

### **3. Recommendations for immediate medical care and special treatment needed, when necessary:**     N/A

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## **Section 5: Fire – Fighting Measures**

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

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

Flash point: 292 deg F

Extinguishing media: Foam, water fog, carbon dioxide, or dry chemical

- 2. 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 or 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.

- 3. 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:

- 1. 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.

- 2. Emergency procedures, including instructions for evacuations, consulting experts when needed, and appropriate protective clothing.**

P-50SD is classified as a non-corrosive liquid. Reasonable and prudent care should be exercised during any cleanup efforts.

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## **Section 6 (Continued):      Accidental Release Measures**

### **3. Methods and materials used for containment.**

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

### **4. 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**

This section provides guidance on the safe handling practices and conditions for safe storage of chemicals. The required information consists of:

### **1. 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.

### **2. 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.

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## **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:

- 1. 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<sup>3</sup>

OSHA PEL Respirable fraction 5 mg / m<sup>3</sup>

- 2. 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.

- 3. 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.

- 4. 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

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## Section 9: Physical and Chemical Properties

This section identifies physical and chemical properties associated with the substance or mixture. The minimum required information consists of:

- 1. Appearance (physical state, color, etc.):** Viscous liquid. Yellow to golden brown.
- 2. Upper/lower flammability or explosive limits:** LEL & UEL Not Applicable.
- 3. Odor:** Slight citrus odor
- 4. Vapor Pressure:**

<b>P in mm Hg</b>	1	10	40	100	400	760
<b>T in deg C</b>	125.5	167.2	198.0	220.1	263.0	290.0

- 5. Odor Threshold:** Not Available
- 6. Vapor Density:** 3.17 (H<sub>2</sub>O = 1)
- 7. pH:** 1.50 – 3.00
- 8. Specific Gravity / Density:** 1.10 – 1.30
- 9. Melting / Freezing point:** 20 deg F
- 10. Solubility:** Misc in water, insol in chloroform.
- 11. Boiling point:** 290 deg C
- 12. Flash point:** 193 deg C / 379.4 deg F
- 13. Evaporation rate:** Not Available
- 14. Flammability (solid, gas):** Not Applicable
- 15. Partition coefficient: n-octanol/water:** Not Available
- 16. Auto-ignition temperature:** 400 deg C / 752 deg F
- 17. Decomposition temperature:** 290 deg C
- 18. Viscosity:** Not Available.

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## Section 10:                    Stability and Reactivity

This section describes the reactivity hazards of the chemical and the chemical stability information. This section is broken into three parts: reactivity, chemical stability, and other. The required information consists of:

### 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 CO<sub>2</sub> 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

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## Section 10 (continued):

## Stability and Reactivity

### 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.



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## Section 11: Toxicological Information

This section identifies toxicological and health effects information or indicates that such data are not available. The required information consists of:

- 1. 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<sub>50</sub> in rats 5,000 mg / kg.

**Inhalation:** LC<sub>50</sub> in rabbits 250 mg/m<sup>3</sup>

- 2. Description of the delayed, immediate, or chronic effects from short- and long-term exposure.**

Chronic / other effects: None Observed

- 3. The numerical measures of toxicity (e.g., acute toxicity estimates such as LD<sub>50</sub> (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<sub>50</sub> in rats 5,000 mg / kg.

- 4. 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.

- 5. 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

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**Section 12:            Ecological Information (non – mandatory)**

**This section intentionally left blank**

**Section 13:            Disposal Considerations (non – mandatory)**

**This section intentionally left blank**

**Section 14:            Transportation Information (non – mandatory)**

**This section intentionally left blank**

**Section 15:            Regulatory Information (non – mandatory)**

**This section intentionally left blank**

**Section 16:            Other Information**

This section indicates when the SDS was prepared or when the last known revision was made.  
02/2016

Reviewed: 08/2021