



MATERIAL SAFETY DATA SHEET

KleanTerpenes.com

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Section 1. Chemical Identification

Grapefruit Terpenes

Section 2. Composition/Information of Ingredients

CAS#: 68917-32-8
Weight%: 100

Section 3. First-Aid Measures

Eye Contact Aid: Flush immediately with cold clean water for at least 15 minutes, contact a physician immediately.

Skin Contact Aid: Thoroughly wash the affected area with soap and water. Flush with large quantities of water. If irritation persists, call a physician.

Inhalation Aid: Remove individual to fresh air, contact physician if necessary.

Ingestion Aid: Administer water or milk to dilute. Contact a physician or local poison control center immediately.

Section 4. Fire Fighting Measures

Extinguishing Media: Carbon Dioxide; Foam; Dry Chemical

Special Fire Fighting Procedures: Wear protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosive Hazards: Not Established

Section 5. Accidental Release Measures

Procedure: Remove any source of flame or sparks. If in a confined area, NIOSH approved respiratory protection may be required. Remove individuals from if they do not have respiratory/dust protection. Spray material with water to prevent dusting and remove to an approved disposal container. Follow federal, State and Local procedures for cleaning up of powder. Dispose of in accordance with current laws and regulations.

Section 6. Handling and Storage

Storage/Handling: Avoid breathing vapors. Avoid contact with skin, eyes and clothing. Store in containers fully sealed in a cool, dry, ventilated place away from light & sources of ignition. Before opening and handling this flavor/fragrance, consult your workplace safety officer and MSDS.

Section 7. Exposure Controls/Personal Protection

Eyes: The use of goggles or a face shield is recommended.

Respiratory: Respiratory protection is normally not required in well ventilated areas. However, NOISH approved respiratory protection may be required when the material is rated toxic by inhalation or if the material is to be used in a confined area.

Procedure: Remove any source of flame or sparks. If in a confined area, NIOSH approved respiratory protection may be required. Remove individuals from the area, if they do not have respiratory/dust protection. Spray material with water to prevent dusting and remove to an approved disposal container. Follow Federal, State and Local procedures for cleaning up of powder. Dispose of in accordance with current laws and regulations.

Other Protective Devices: Chemical resistant gloves are recommended (i.e. Nitrile gloves).

Ventilation: Ventilation meeting ACGIH Standards should be employed.

Work/Hygienic Practices: Use good personal hygiene practices; Limit exposure to product, whenever possible.

Section 8. Physical and Chemical Properties

Appearance and Odor: Colorless to greenish yellow

Boiling Point (Deg C): NA

Melting Point (Deg C): NA

Vapor Density: NA

Vapor Pressure: NA

Specific Gravity 0.84

Refractive Index: 1.4582 – 1.4592

Solubility: Insoluble

Flash Point: 46°C

Flammability (solid, gas): NA

Auto flammability: NA

Explosive Properties: NA

Oxidizing Properties: NA

Section 9. Stability and Reactivity

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: None

Materials and/or Conditions to avoid: Avoid heat, flames & sparks

Stability: Stable under normal conditions

Section 10. Toxicological Information

Acute Toxicity Data:

Oral 4400 mg/kg	None Established
Dermal >5000 mg/kg	None Established
Inhalation LC50:	None Established

Health Hazards (Acute and Chronic):

Ingestion of large quantities: None Established
Inhalation: None Established
Skin Contact: Liquid May be Irritating
Eye Contact: Liquid May be Irritating

Note: *The above effects are based on evaluation of individual components; the relevancy to the mixture as a whole or to humans is unknown.*

Other Effects: None Established

Section 11. Ecological Information

Aquatic toxicity: Very toxic to aquatic organisms and to the aquatic environment. Potential for both acute and chronic effects

Degradation / Mobility info: No specific data available. Contained solvents are expected to degrade rapidly in the environment.

Bioaccumulative potential: No specific data available.

Section 12. Transport Information

Proper Shipping Name: TERPENE HYDROCARBONS (GRAPEFRUIT TERPENES)
Air Shipping (IATA): No regulation
Ground Shipping (USDOT): No regulation
Ocean Shipping (IMDG): No regulation

Section 13. Other Information

Hazardous Materials Identification System

Health: 1 **Flammability: 3** **Reactivity: 1**
4-Extreme 3-High 2-Moderate 1-Slight 0-No Significant Hazard

Section 14. Regulatory

This substance contains no material subject to the reporting requirements of Superfund Amendments and Reauthorization Act of 1986 Title III, Section 313.

Section 15. Conclusion

The information contained herein is based on data considered accurate and reliable. However, the data is provided without any warranty, expressed or implied regarding its correctness or accuracy. It is the users responsibility both to determine safe conditions for use of this product, and to assume liability for loss, injury, damage, or expense resulting from the improper use of this product.

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