



# Material Safety Data Sheet

Product Name: Grapenomenon 0mg

## Section 1: Product and Company Identification

**Product ID:** Grapenomenon 0mg  
**Synonyms:** N/A  
**Eliquid**  
**Ejuice**

**Contact Information:** Lotus Vaping Technologies  
5118 N Sawyer Ave  
Boise, ID 83714  
USA  
Phone: 888-347-5088

## Section 2: Composition Information

**Description:** This mixture contains USP grade Propylene Glycol, USP Grade Glycerin. Mixture is prepared under the GMP conditions.

Ingredient	Chemical Name	Formula	CAS#	Amount
Propylene Glycol, USP	1,2-propanediol	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	57-55-6	<40% by weight
Glycerin, USP	1,2,3-propanetriol	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	56-81-5	<30% by weight
Proprietary Flavor	N/A	N/A	N/A	<15% by weight

## Section 3: Hazards Identification

**Eye Contact:** May cause eye irritation.

**Skin Contact:** May be toxic with skin contact. May cause skin irritation.

**Inhalation:** May be irritating to mucous membranes and upper respiratory tract.

**Ingestion:** May cause nausea, abdominal pain, or sweating. May be toxic if swallowed.

## Section 4: First Aid Measures

**Eye Contact:** If contact lenses are present, remove from eye. Immediately flush the eye with water for a minimum of 15minutes. Seek medical attention.

**Skin Contact:** In case of contact, remove any contaminated clothing and rinse the skin with water for a minimum of 15minutes. If irritation occurs, cover the irritated skin with an emollient and seek medical attention. Wash clothing before reuse.

**Serious Skin Contact:** Wash with a disinfectant soap and cover the contaminated skin with an antibacterial cream. Seek medical attention.

**Serious Inhalation:** If inhaled, remove to fresh air. If breathing is labored, give oxygen. If not breathing, give artificial respiration. Seek medical attention immediately.



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**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention immediately.

## Section 5: Fire and Explosion Data

### General Information:

<b>Propylene Glycol, USP</b>	Flammability:	May be combustible at high temperature.
	Auto-Ignition Temp:	371°C
	Flash Points:	Closed Cup: 99°C / Open Cup: 107°C
	Flammable Limits:	Lower: 2.6% / Upper: 12.5%
	Products of Combustion:	Carbon Oxides (CO, CO <sub>2</sub> )
	Explosive Hazards:	N/A
	Fire Hazards:	Slightly flammable to flammable in presence of heat.
<b>Glycerin, USP</b>	Flammability:	May be combustible at high temperature.
	Auto-Ignition Temp:	370°C
	Flash Points:	Closed Cup: 160°C / Open Cup 199°C
	Flammable Limits:	Lower: 0.9%
	Products of Combustion:	Carbon Oxides (CO, CO <sub>2</sub> )
	Explosive Hazards:	N/A
	Fire Hazards:	Slightly flammable to flammable in presence of heat, open flames, and sparks. Explosive in presence of oxidizing materials.

### Fire Fighting Media and Instructions

<b>Suitable Extinguishing Media:</b>	Use water spray, carbon dioxide, dry chemical powder or foam.
<b>Unsuitable Extinguishing Media:</b>	Do not use extinguishing media containing oxidizing media.



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## Section 6: Accidental Release Measures

- Small Spill:** Dilute with water and mop up or absorb with an inert dry material and place in an appropriate waste disposal container.
- Large Spill:** Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

## Section 7: Handling and Storage

- Handling Precautions**
- |                  |   |
|------------------|---|
| Safe Handling:   | Avoid prolonged or repeated exposure. Do not allow contact with eyes, on skin and on clothing |
| Environment:     | Avoid runoff into storm sewers and ditches which lead to waterways.                           |
| Incompatibility: | Keep away from oxidizing agents.  |
- Storage Precautions**
- |              |  |
|--------------|--|
| Temperature: | Store between 50°F-70°F. Keep away from high heat.           |
| Sunlight:    | Store protected from sunlight and artificial light.          |
| Humidity:    | Store in a cool dry place protected from moisture.           |
| Ventilation: | Provide adequate ventilation. Keep away from fumes.          |
| Packaging:   | Store in tightly closed containers. Do not reuse containers. |
- Risk Management**
- |                         |   |
|-------------------------|---|
| Corrosive Conditions:   | Non corrosive in presence of glass.           |
| Flammability Hazards:   | Emits toxic fumes under fire conditions.      |
| Evaporative Conditions: | Keep surrounding cool and well ventilated.    |
| Ignition Sources:       | Keep away from potential sources of ignition. |
- Specific Use**                      Refill liquid for use in electronic cigarettes.

## Section 8: Exposure Controls and Personal Protective Equipment

- Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- Personal Protection:** Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
- Personal Protection: (Large Spills)** Splash goggles, full suit, vapor respirator, boots and gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

<b>Propylene Glycol, USP</b>	United States (AIHA)	10mg/m <sup>3</sup>
<b>Glycerin, USP</b>	United States (OSHA)	15 mg/m <sup>3</sup>



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## Section 9: Physical and Chemical Properties

<b>Physical State:</b>	Liquid	<b>Vapor Pressure:</b>	N/A
<b>Color:</b>	Clear to light yellow	<b>Density:</b>	1,125 g/cm <sup>3</sup>
<b>Odor:</b>	Slightly pungent	<b>Rel. Density:</b>	N/A
<b>pH-value:</b>	N/A	<b>Vapor Density:</b>	>1 vs aih
<b>Boiling Point:</b>	250°C	<b>Evaporation Rate:</b>	N/A
<b>Freezing Point:</b>	-65°C	<b>Water Solubility:</b>	50 mg/ml
<b>Viscosity:</b> (Dynamic at 20°C)	600 mPas		

## Section 10: Stability and Reactivity

<b>Chemical Stability:</b>	Stable	<b>Polymerization:</b>	Will Occur
<b>Reactivity:</b>	Reactive with oxidizing agents, reducing agents, acid, alkalis.		
<b>Instability Conditions:</b>	Avoid contact with incompatible materials, excess heat and ignition sources.		

## Section 11: Toxicology Information

<b>Propylene Glycol, USP</b>	Oral, Rat:	LD50	=20,000 mg/kg
	Oral, Mouse:	LD50	=22,000 mg/kg
	Dermal, Rabbit:	LD50	=20,800 mg/kg
<b>Glycerine, USP</b>	Oral, Rat:	LD50	=12,600 mg/kg
	Oral, Mouse:	LD50	=4,090 mg/kg
	Dermal, Rabbit:	LD50	=10,000 mg/kg
	Mist, Rat	LC50	=570 mg/m <sup>3</sup> / 1 hour (Based on 4-hour exposure)



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## Section 12: Ecological Information

<b>Propylene Glycol, USP</b>	Toxicity	Fish (Oncorhynchus mykiss) 96 h: LC50 = 40,613 mg/l Water Flea (Ceriodaphnia Dubia) 48 h: LC50 = 18,340 mg/l	Toxic: 3-29ppm
	Degradability:	Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Biodegradation may occur under anaerobic conditions (in the absence of oxygen).	96hr: LC50 = 4mg/l
	Accumulation:	Bioconcentration potential is low (BCF < 100 or Log Pow < 3) Log Pow used: -1.07 EU Method A.8 (Partition Coefficient) Bioconcentration Factor (BCF): 0.09; Estimated.	48hr: LC50 = 0.24mg/l
	Mobility in Soil:	Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process., Potential for mobility in soil is very high (Koc between 0 and 50). Koc: < 1 (estimated) Henry's Law Constant (H): 1.2E-08 atm*m3/mole Measured	
<b>Glycerin, USP</b>	Toxicity	No aquatic environmental information is available on this product.	
	Degradability:	This product is completely biodegradable.	
	Accumulation:	Bioaccumulation of this product has not been determined.	
	Mobility in Soil:	Mobility of this material has not been determined. Low potential for sorption to soil. Glycerine will partition primarily to water.	



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## Section 13: Disposal Considerations

**DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.**

All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

For unused and uncontaminated product, the preferred options include sending to a licensed, permitted: Recycler. Reclaimer. Incinerator or other thermal destruction device.

**Sewage Disposal:** Avoid release to environment. Do not wash away into sewer.

**Chemical Properties:** Substance is hygroscopic and should not be allowed to come in contact with moisture/water.

## Section 14: Transport Information

### US FEDERAL

Reference: 49 CFR § 173.132(a)

Reference: 49 CFR § 173.132(b)(1)

Reference: 49 CFR § 173.132(b)(2):

Reference: 49 CFR § 173.132(a)(1)(i)

Reference: 49 CFR § 173.132(a)(1)(ii)

Reference: 49 CFR § 173.133(a)(1):

Under CFR Title 49, this mixture is not presumed to be toxic to humans based on the following:

Oral LD50 of Mixture 5939 mg/kg > 300 mg/kg

Dermal LD50 of Mixture 9622 mg/kg > 1000 mg/kg



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## Section 15: Regulatory Information

### US FEDERAL

- Clean Air Act:** Does not contain any hazardous air pollutants.  
Does not contain any Class 1 Ozone depletors.  
Does not contain any Class 2 Ozone depletors.
- Clean Water Act:** None of the chemicals in this product are listed as Hazardous Substances under the CWA.  
None of the chemicals in this product are listed as Priority Pollutants under the CWA.  
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
- OSHA:** Not considered highly hazardous by OSHA.

## Section 16: Other Information

- Acronyms:**
- EC: European Commission
  - CLP: Classification Labelling and Packaging
  - GHS: Globally harmonized system on classification and labelling
  - DSD: Dangerous Substance directive
  - EWC: European Waste Catalogue
  - AVV: Waste codes according to the waste catalogue ordinance
  - ADR: European agreement concerning the International Carriage of Dangerous Goods by Road
  - RID: European agreement concerning the International Carriage of Dangerous Goods by Rail
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent

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