

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** G2 Vapor Dr. Green  
**Other means of identification** None.  
**Recommended use** Electronic cigarette liquid.  
**Recommended restrictions** None known.

### Manufacturer/Importer/Supplier/Distributor information

**Company name** Liquid Art Inc.  
**Address** 150 Penrod Court Ste A  
Glen Burnie, MD 21061  
**Telephone** 4105828035  
**E-mail** sales@liquidartinc.com  
**Contact person** Clinton Legg  
**Emergency phone number** 855-212-6036

## 2. Hazard(s) identification

**Physical hazards** Not classified.  
**Health hazards** Not classified.  
**OSHA defined hazards** Not classified.

### Label elements

**Hazard symbol** None.  
**Signal word** None.  
**Hazard statement** The mixture does not meet the criteria for classification.  
**Precautionary statement**  
**Prevention** Observe good industrial hygiene practices.  
**Response** Wash hands after handling.  
**Storage** Store away from incompatible materials.  
**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC)** None known.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	CAS number	%
Glycerin	56-81-5	50-70
Propylene glycol	57-55-6	10-30
.alpha.-Terpineol	98-55-5	0.2-2
3-hexen-1-ol	928-96-1	0.2-2
Amyl alcohol	71-41-0	0.2-2
Ethyl butyrate	105-54-4	0.2-2
Ethyl-2-methylbutyrate	7452-79-1	0.2-2
Isoamyl butyrate	106-27-4	0.2-2
Isobutyl acetate	110-19-0	0.2-2
Linalool	78-70-6	0.2-2

#### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Headache. Nausea, vomiting.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Alcohol resistant foam. Dry powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	<p>Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Avoid prolonged exposure. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

##### Occupational exposure limits

##### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Glycerin (CAS 56-81-5)	PEL	5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>	Respirable fraction. Total dust.
Isobutyl acetate (CAS 110-19-0)	PEL	700 mg/m <sup>3</sup> 150 ppm	

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Nicotine (CAS 54-11-5)	PEL	0.5 mg/m3	

## US. ACGIH Threshold Limit Values

Components	Type	Value
Isobutyl acetate (CAS 110-19-0)	TWA	150 ppm
Nicotine (CAS 54-11-5)	TWA	0.5 mg/m3

## US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Isobutyl acetate (CAS 110-19-0)	TWA	700 mg/m3
		150 ppm
Nicotine (CAS 54-11-5)	TWA	0.5 mg/m3

## US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
Amyl alcohol (CAS 71-41-0)	TWA	360 mg/m3	
		100 ppm	
Propylene glycol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

### Exposure guidelines

#### US - California OELs: Skin designation

Nicotine (CAS 54-11-5) Can be absorbed through the skin.

#### US - Minnesota Haz Subs: Skin designation applies

Nicotine (CAS 54-11-5) Skin designation applies.

#### US - Tennessee OELs: Skin designation

Nicotine (CAS 54-11-5) Can be absorbed through the skin.

#### US ACGIH Threshold Limit Values: Skin designation

Nicotine (CAS 54-11-5) Can be absorbed through the skin.

#### US. NIOSH: Pocket Guide to Chemical Hazards

Nicotine (CAS 54-11-5) Can be absorbed through the skin.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Nicotine (CAS 54-11-5) Can be absorbed through the skin.

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves.

##### Other

Wear suitable protective clothing.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Yellowish.
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	> 200.0 °F (> 93.3 °C)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon oxides.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
.alpha.-Terpineol (CAS 98-55-5)	0, Irritating to skin.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
.alpha.-Terpineol (CAS 98-55-5)	0, Irritating to eyes.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Headache. Nausea, vomiting.

### Information on toxicological effects

#### Acute toxicity

Components	Species	Test Results
.alpha.-Terpineol (CAS 98-55-5)		
<i>Dermal</i>		
LD50	Rabbit	> 3000 mg/kg
<i>Oral</i>		
LD50	Rat	4300 mg/kg
Glycerin (CAS 56-81-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	12600 mg/kg
Nicotine (CAS 54-11-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	50 mg/kg
<i>Oral</i>		
LD50	Rat	188 mg/kg
Propylene glycol (CAS 57-55-6)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	30 g/kg

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

**Eye Contact**

.alpha.-Terpineol (CAS 98-55-5) 0, Irritating to eyes.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Skin sensitization**

.alpha.-Terpineol (CAS 98-55-5) 0, Not sensitizing.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Germ cell mutagenicity: Ames test**

.alpha.-Terpineol (CAS 98-55-5) 0, Negative

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

**12. Ecological information**

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Nicotine (CAS 54-11-5)		
<b>Aquatic</b>		
Fish	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4 mg/l, 96 hours

Components	Species	Test Results	
Propylene glycol (CAS 57-55-6)			
<b>Aquatic</b>			
Crustacea	LC50	Ceriodaphnia dubia	18340 mg/l, 48 hours
Fish	LC50	Pimephales promelas	46500 mg/l, 96 hours

**Persistence and degradability** No data is available on the degradability of this product.

**Biodegradability**

**Percent degradation (Aerobic biodegradation)**

.alpha.-Terpineol (CAS 98-55-5) OECD Test Guideline301, 84.6%; Readily Biodegradable.

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**

.alpha.-Terpineol (CAS 98-55-5)	2.98
Amyl alcohol (CAS 71-41-0)	1.4
Ethyl butyrate (CAS 105-54-4)	1.73
Glycerin (CAS 56-81-5)	-1.76
Isobutyl acetate (CAS 110-19-0)	1.78
Linalool (CAS 78-70-6)	2.97
Nicotine (CAS 54-11-5)	1.17
Propylene glycol (CAS 57-55-6)	-0.92

**Mobility in soil** Expected to be mobile in soil.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**13. Disposal considerations**

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**14. Transport information**

**DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**15. Regulatory information**

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Amyl alcohol (CAS 71-41-0)	LISTED
Ethyl butyrate (CAS 105-54-4)	LISTED
Isobutyl acetate (CAS 110-19-0)	LISTED
Nicotine (CAS 54-11-5)	LISTED

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
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Nicotine	54-11-5	100	100		
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**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**  
Not regulated.

## Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

## US state regulations

### US. Massachusetts RTK - Substance List

Amyl alcohol (CAS 71-41-0)  
Ethyl butyrate (CAS 105-54-4)  
Glycerin (CAS 56-81-5)  
Isobutyl acetate (CAS 110-19-0)  
Nicotine (CAS 54-11-5)

### US. New Jersey Worker and Community Right-to-Know Act

Amyl alcohol (CAS 71-41-0)  
Ethyl butyrate (CAS 105-54-4)  
Glycerin (CAS 56-81-5)  
Isobutyl acetate (CAS 110-19-0)  
Nicotine (CAS 54-11-5)  
Propylene glycol (CAS 57-55-6)

### US. Pennsylvania Worker and Community Right-to-Know Law

3-hexen-1-ol (CAS 928-96-1)  
Amyl alcohol (CAS 71-41-0)  
Ethyl butyrate (CAS 105-54-4)  
Glycerin (CAS 56-81-5)  
Isobutyl acetate (CAS 110-19-0)  
Nicotine (CAS 54-11-5)  
Propylene glycol (CAS 57-55-6)

### US. Rhode Island RTK

Isobutyl acetate (CAS 110-19-0)  
Nicotine (CAS 54-11-5)

### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Nicotine (CAS 54-11-5)

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

<b>Issue date</b>	25-March-2015
<b>Revision date</b>	-
<b>Version #</b>	01
<b>HMIS® ratings</b>	Health: 1 Flammability: 1 Physical hazard: 0

### NFPA ratings



### Disclaimer

Liquid Art Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.