



VITUSA PRODUCTS™  
INCORPORATED

## **Material Safety Data Sheet**

Issue/Revision Date: July 15, 2008 (6 total pages)

### **1. Chemical Product and Company Identification**

**Product Name:** Glycerine

**Product Uses:** Used commercially as a humectant, sweetener, emulsifier, in paints and coatings, pharmaceuticals, nutraceuticals, and food products.

**Company Name and Address:** Vitusa Products, Inc.  
343 Snyder Avenue  
Berkeley Heights, NJ 07922  
Tel. 908-665-2900  
Fax. 908-665-2662

**Emergency Information:** Vitusa Products – 908-665-2900 or 1-800-8-VITUSA  
CHEMTREC – 1-800-424-9300 for transportation leaks  
involving chemical spills, fires or accidents  
**Medical Emergency** – 1-888-456-6218

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### **2. Composition/Information on Ingredients**

**Chemical Name:** 1, 2, 3 – Propanetriol

**Composition:** Glycerol

**CAS Number:** 56-81-5

**%:** >99.7

**Exposure Limits (TWA):** OSHA PEL – 15 mg/m<sup>3</sup>

**Color:** Colorless

**Form:** Liquid

**Odor:** Odorless

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### **3. Hazards Identification**

**Hazard Description:** Not Applicable

**Health Effect:** **Eye Contact** – No irritation is likely however concentrated solutions may cause temporary discomfort  
**Skin Contact** – No irritation is likely however product heated to excess temperatures may cause burns  
**Inhalation** – Unlikely at ambient temperatures however as an aerosol and/or mist, glycerine may irritate respiratory tracts  
**Ingestion** – Unlikely to cause irritation unless excessive quantities consumed  
**Note** – No toxic effects are known to be associated with ingestion or inhalation of this material

**Chemical Hazards:** When in contact with strong oxidizing agents or strong acids, glycerine may explode. Agents/Acids include Nitric Acid,

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Chromium Trioxide, Potassium Permanganate and Potassium Chromium

Not Listed by OSHA, ACGIH, IARC, NIOSH, or NTP  
Product is biodegradable

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**4. First Aid Measures**

- Eye Contact:** Immediately flush with water for at least 15 minutes. If irritation continues seek medical attention
- Skin Contact:** Wash product off the skin with plenty of water and soap. If redness, itching or burning sensation develop seek medical attention
- Inhalation:** Remove victim to fresh air. If cough or irritation in respiratory tract continues seek medical attention
- Ingestion:** Do not induce vomiting, drink plenty of water and seek medical or poison control attention
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**5. Fire Fighting Measures**

- Flash Point (F):** 351 degrees (open cup)
- Flash Point (C):** 177 degrees (open cup)
- Auto-ignition Temperature (F):** 752 degrees
- Auto-ignition Temperature (C):** 400 degrees
- Flammable Limits:** Not applicable
- Extinguishing Media:** Water mist/fog, carbon dioxide, dry chemical or foam. Water or foam may cause frothing, especially if sprayed into containers of hot, burning liquid. Do not use direct water stream as it may spread the fire
- Special Protective Equipment:** Self contained breathing apparatus and full protective clothing
- Exposure Hazards:** During burning poisonous acrolein may be formed
- Sensitivity to Mechanical Impact/Static Discharge:** No data
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**6. Accidental Release Measures**

- Personal Precautions:** Wear respirator, suitable gloves and eye/face protection
- Procedure for Spills or Leaks:** Contain spill, minimizing the contamination of drains, surface and ground waters. Soak up material with absorbent (i.e. sand) and shovel into a chemical waste container. Wash residue material with water and detergent
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**7. Handling and Storage**





**Handling:** Normal precautions should be observed. Avoid eye and skin contact as well as any generation of mist. Atmospheric levels should be controlled in compliance with the occupational exposure limit

**Storage:** Store in original, sealed containers under dry conditions. This material is hygroscopic

## 8. Exposure Controls/Personal Protection

### Exposure Limits:

#### OHSA PEL

**Component Name:**  
Glycerine

#### Exposure limits:

15 mg/m<sup>3</sup> TWA (total); 5 mg/m<sup>3</sup> TWA (respirable fraction)

#### ACGIH TLV

**Component Name:**  
Glycerine Mist

#### Exposure limits:

10 mg/m<sup>3</sup> TWA

**Engineering Controls**  
**Eye protection**  
**Protective Clothing**  
**Respiratory protection**

Provide adequate ventilation  
Safety glasses with side shield  
Impervious gloves, PVC recommended  
Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type A may be appropriate

**Other**

Eyewash and safety shower easily accessible to the work area

## 9. Physical and Chemical Properties

<b>Color</b>	colorless
<b>Form</b>	liquid
<b>Odor</b>	odorless
<b>pH</b>	~7
<b>Boiling Point</b>	554 degrees F (290 degrees C)
<b>Flash Point (open cup)</b>	351 degrees F (177 degrees C)
<b>Autoignition Temperature</b>	752 degrees F (400 degrees C)
<b>Flammable Limits</b>	N/A
<b>Explosive Properties</b>	Not to be expected
<b>Oxidizing Properties</b>	Not to be expected
<b>Solubility (water)</b>	miscible



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<b>Solubility (other)</b>	miscible with ethanol, slightly soluble in acetone, Insoluble in ether and in chloroform
<b>Partition Coefficient</b>	-2.6 calculated
<b>Dynamic Viscosity (mPa.s)</b>	1300 @ 20 degrees C
<b>Density (g/ml)</b>	1.262 @ 20 degrees C
<b>Freezing/melting point</b>	64 degrees F (18 degrees C), solidifies at a much lower temperature

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**10. Stability and Reactivity**

<b>Stability</b>	Stable under normal conditions
<b>Materials to avoid</b>	Strong oxidizing agents
<b>Conditions to avoid</b>	None known
<b>Hazardous decomposition products</b>	During burning poisonous acrolein may be formed
<b>Hazardous polymerization</b>	Will not occur

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**11. Toxicological Information**

<b>Eye Contact:</b> Rabbit	Practically nonirritating
<b>Skin Contact:</b> Rabbit	24hours Nonirritating
<b>Dermal Toxicity:</b> LC50 Rabbit	≥ 18700 mg/kg Practically nontoxic
<b>Ingestion:</b> LD50 rat	≥ 25000 mg/kg Relatively harmless
	LD50 mouse ≥ 4000 mg/kg
<b>Chronic:</b>	An inhalation study in animals has shown the repeated exposures produce no significant effects
<b>Carcinogenicity:</b>	Studies in animals have shown that repeated doses do not produce carcinogenic effects. This material is not listed as a carcinogen by OSHA, IARC, and NTP
<b>Reproductive toxicity/teratogenicity:</b>	A multigeneration study in rats has shown that repeated high doses produce no adverse reproductive effect. A study in animals has shown that repeated doses produce no teratogenic effects
<b>Mutagenicity:</b>	The substance is not considered to be genotoxic
<b>Toxicologically synergistic products:</b>	None known

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**12. Ecological Information**

**Persistence and Degradation:** Biological Oxygen Demand (BOD 5 DAY/COD) 86%

**Toxicity:** Low toxicity to aquatic organisms  
LC50 (96 hour) fish ≥ 5000 mg/l

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EC50 (24 hour) Daphnia magna  $\geq$  10000 mg/l  
EC50 (16 hour) Pseudomonas putida  $\geq$  10000 mg/l

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### 13. Disposal Considerations

#### **RCRA (Resource Conservation and Recovery Act) Classification:**

**Specifically Listed Wastes:** N/A

**Characteristic Wastes:** Ignitability: N/A  
Corrosivity: N/A  
Reactivity: N/A  
Toxicity: N/A

**Disposal Methods:** Disposal should be in accordance with local, state or national legislation.

**Container Disposal:** Empty container retains product residue. Observe all hazard precautions. Puncture or otherwise destroy empty container before disposal

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### 14. Transport Information

**US DOT:** Not Regulated

Not classified in RID/ADR-ADNR-IMDG-ICAO/IATA-DGR

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### 15. Regulatory Information

#### **Inventory Status**

<b>EU (EINECS/ELINCS/NLP)</b>	Compliant
<b>USA (TSCA)</b>	Compliant
<b>Canada (DSL)</b>	Compliant
<b>Australia (AICS)</b>	Compliant
<b>Japan (ENCS)</b>	Compliant
<b>China (IECSC)</b>	Compliant
<b>Korea (ECL)</b>	Compliant
<b>Philippines (PICCS)</b>	Compliant

#### **OSHA Hazard Communication Standard**

##### **29 CFR 1910.1200, Hazard Summary:**

<b>Health Hazards</b>	Inhalation (TLV)
<b>Physical Hazards</b>	None

**WHMIS Classification** Not controlled (Not hazardous)

#### **CERCLA and SARA Regulations (40 CFR 355, 370 and 372):**

**This material contains the following chemicals subject to the reporting requirements of SARA 313 – No 313 listed chemicals in this product**

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**SARA 311/312 Hazard Categories:**

<b>Immediate</b>	Y
<b>Delayed</b>	N
<b>Fire</b>	N
<b>Pressure</b>	N
<b>Reactivity</b>	N

**State Regulations:**

**Pennsylvania State Chemicals Regulated as Hazardous – 1,2,3-Propanetriol**

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**16. Other Information**

We assigned NFPA ratings and HMIS ratings to this product based on hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with the information contained in the product MSDS.

**HMIS Information**

**Health** 0  
**Flammability** 1  
**Physical Hazards** 0

The HMIS ratings displayed above are from the HMIS III Third Edition. There have been significant changes made to the system. “Physical Hazard” stands for the physical hazard as defined in the OSHA Hazard Communication Standard and replaces the former code for reactivity.

**NFPA Information**

**Health** 0  
**Flammability** 1  
**Instability** 0

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The information provided in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. Vitusa Products believes this information to be reliable and up to date as of the date of publication, but makes no warranty that it is. It is the users responsibility to determine the suitability of the information provided and to distribute it to those who will use, handle, store, transport, or may otherwise be exposed to this product.

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