



Safety Data Sheet

Issue/Revision Date: April 23, 2015

1 IDENTIFICATION

Product Name: Glycerine N2000G, N2001G, GRK

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

Company:	Vitusa Products, Inc. 343 Snyder Avenue Berkeley Heights, NJ 07922 Tel: 908.665.2900 Fax: 908.665.2662	Distributor: National Refrigeration Products 985 Wheeler Way Langhorne, PA 19047 USA
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Emergency Information: Vitusa Products – 908.665.2900
Chemtrec – 800.424.9300 for transportation spills or fires
Medical Emergency – 888.456.6218

2 HAZARD(S) 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, Chromium Trioxide, Potassium Permanganate and Potassium Chromium.

Not Listed by OSHA, ACGIH, IARC, NIOSH, or NTP as product is biodegradable.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: 1, 2, 3 -Propanetriol

Composition: Glycerol

CAS Number: 56-81-5

#: >99.7 Glycerol

Exposure Limits (TWA): OSHA PEL - 15 mg/m³

Color: Colorless

Form: Liquid

Odor: Odorless

The Competitive Advantage™

E-Mail: custserv@vitusaproducts.com ■ Web Site: www.vitusaproducts.com



The Quality System of Vitusa Products, Incorporated has been registered to ISO 9001:2000 by SGS

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 develops, 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

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

6 ACCIDENTAL RELEASE MEASURES

- Personal Precautions: Wear respirator, suitable gloves and eye/face protection (PPE)
- 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.

7 HANDLING AND STORAGE

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

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

OSHA PEL

Component Name:

Glycerine

Exposure limits

15 mg/m³ TWA (total); 5 mg/m³ TWA
(respirable fraction)

ACGIH TLV

Component Name:

Glycerine Mist

Exposure limits

10 mg/m³ 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

Color

colorless

Form

liquid

Odor

odorless

pH

7

Boiling Point

554 degrees F (290 degrees C)

Flash Point (open cup) A

351 degrees F (177 degrees C)

Autoignition Temperature

752 degrees F (400 degrees C)

Flammable Limits

N/A

Explosive Properties

Not to be expected

Oxidizing Properties

Not to be expected

Solubility (water)

miscible

Melting point/freezing point

18°C / 64°F

Boiling point/boiling range

290°C / 554°F

Flammability (solid, gas)

May burn if exposed to an open flame

Vapor pressure

0.000106 hPa (20°C)

Specific Gravity

1.26 (20°C)

Dynamic viscosity

1300 mPa (20°C)

Explosive Properties

N/A

Oxidizing Properties

N/A

10 STABILITY AND REACTIVITY

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

11 TOXICOLOGICAL INFORMATION

Eye Contact: Rabbit:	Practically nonirritating
Skin Contact: Rabbit 24hours:	Nonirritating
Dermal Toxicity: LC50 Rabbit:	≥18700 mg/kg, Practically nontoxic
Ingestion: LD50 rat:	≥25000 mg/kg, Relatively harmless
LD50 mouse:	≥4000 mg/kg
Chronic:	An inhalation study in animals has shown the repeated exposures produce no significant effects
Carcinogenicity:	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
Reproductive toxicity/teratogenicity:	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
Mutagenicity:	The substance is not considered to be genotoxic
Toxicologically synergistic products	None known

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
EC50 (24 hour) Daphnia magna:	>10000 mg/l
EC50 (16 hour) Pseudomonas putida:	>10000 mg/l

13 DISPOSAL CONSIDERATIONS

RCRA 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

14 TRANSPORT INFORMATION

US DOT: Not Regulated

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

15 REGULATORY INFORMATION

Inventory Status

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

OSHA Hazard Communication Standard

29 CFR 1910.1200, Hazard Summary:

Health Hazards Inhalation (TL V)

Physical Hazards 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

SARA 311/312 Hazard Categories:

Immediate	Y
Delayed	N
Fire	N
Pressure	N
Reactivity	N

State Regulations: Pennsylvania State Chemicals Regulated as Hazardous -1,2,3-Propanetriol

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

16. OTHER INFORMATION (CONTINUED)

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

DISCLAIMER

The information in this safety data sheet (SDS) is believed to be accurate and is given in good faith but no representation or warranty as to its completeness or accuracy is made. Suggestions for uses or applications are only opinions. Users are responsible for determining the suitability of these products for their own particular purpose. No representation or warranty, express or implied, is made with respect to information or products including without limitation warranties of merchantability or fitness for a particular purpose or non-infringement of any third party patent or other intellectual property rights including without limit copyright, trademark and designs. Any trademarks identified herein are trademarks of Vitusa Products, Inc.