



NEW DIRECTIONS AROMATICS

MATERIAL SAFETY DATA SHEET

SECTION: 1.1 PRODUCT IDENTIFICATION

Product Name: Glycerin Vegetable USP
Other Name: Glycerin USP/FCC/NF Grade
Synonyms: 1,2,3-Propanetriol, Glycerol
INCI Name: Glycerin
CAS #: 56-81-5
Country of Origin: Canada

SECTION: 1.2 COMPANY IDENTIFICATION

Company: New Directions Aromatics Inc.
Address: 6781-Columbus Road, Mississauga. L5T 2G9 Canada
Telephone No: 905-362-1915
FAX: 905-362-1926

24 HOUR EMERGENCY TELEPHONE NUMBER: (613)-996-6666 CANUTEC

SECTION: 2. COMPOSITION / INFORMATION INGREDIENTS

Constituents:	Product Name	Chemical Name	CAS#	Chemical Formula
No hazardous ingredient.	Glycerin USP 99.5%	1,2,3-Propanetriol	56-81-5	C ₃ -H ₈ -O ₃

SECTION: 3. HAZARDS IDENTIFICATION

Potential Acute Health Effect Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant).
Potential chronic health Effects Carcinogenic Effects: N/A
Mutagenic effects: N/A
Teratogenic Effects: N/A
Development toxicity: N/A
The substance may be toxic to kidneys. Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION: 4. FIRST AID MEASURES

Eye Contact: Check for remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
Ingestion: 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. Have conscious person drink several glasses of water or milk. Seek medical attention immediately.

SECTION: 5. FIRE FIGHTING MEASURES

Products of combustion These products are Carbon oxides (CO, CO₂), aldehyde acrolein.
Fire fighting media and instructions: Small Fire: Use Dry chemical powder
Large Fire: Use water spray, fog or foam, Do not use water jet. Qualified person wearing full fire-fighting suits and approved/certified self-



NEW DIRECTIONS

A R O M A T I C S

MATERIAL SAFETY DATA SHEET

Special Remarks on Fire Hazards: contained breathing apparatus.
Special remarks on Explosion Hazards N/A
Contact with CrO₃, Potassium chlorate or potassium permanganate may produce an explosive mixture.
Flammable in presence of open flames and sparks.

SECTION: 6. ACCIDENTAL RELEASE MEASURES

Small spill and leak Dilute with water and mop up, or absorb with inert dry material and place in an appropriate waste container. Finish cleaning by spreading water on the containment surface and dispose of according to local and regional authority requirements.

Large spill and leak Combustible material.
Keep away from heat. Keep away from source of ignition. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Personal protection in case of large spill Splash goggles, Full suit, Vapor respirator, Boot, 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.

SECTION: 7. HANDLING AND STORAGE

Precaution Keep away from heat. Keep away from source of ignition. Do not breathe gas, fumes, vapor or spray.
Keep away from incompatibles such as oxidizing products.

Incompatibility Reactive with oxidizing agents

Storage: Keep container tightly closed. Keep in a cool, well-ventilated place.
Combustible materials should be stored away from heat and away from strong oxidizing agents.

SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value (TLV).

Personal Protection
Eyes: Safety glasses
Body: Lab coat
Respiratory: No special protective clothing is required. Avoid inhalation of product.
Hands: Gloves
Feet: N/A

Exposure Limits:
1,2,3-propanetriol
TWA: 10 (mg/m³) from ACGIH (TLV) [US] Inhalation Respirable
TWA: 10 (mg/m³) from OSHA (PEL) [US] Inhalation Respirable
Consult local authorities for acceptable exposure limits.

SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless, Liquid (Viscous)



NEW DIRECTIONS

A R O M A T I C S

MATERIAL SAFETY DATA SHEET

Odor/Taste	None/Sweet
This product	Fire & Explosion hazard in presence of certain substances
Solubility:	Easily soluble in hot & cold Water, Methanol, Acetone
Specific Gravity:	1.2636
Flash Point:	199°C
Melting Point:	18 °C
Boiling Point:	290°C (554 °F)

SECTION: 10. STABILITY AND REACTIVITY

Stability:	Chemically stable. This material presents no significant reactivity hazard.
Conditions to Avoid:	Avoid sparks, flame and excessive heat.
Materials to Avoid:	Strong oxidizing agents.
Flammability:	Combustible liquid.
Hazardous Polymerization:	Will not occur.
Decomposition Products:	When heated to decomposition produces fumes of Carbon dioxide and carbon monoxide smoke.

SECTION: 11. TOXICOLOGICAL INFORMATION

Route of entry	Absorbed through skin, Eye contact, inhalation, ingestion. Acute oral toxicity (LD50): 4090 mg/kg [Mouse]
Toxicity to animals	Acute dermal toxicity (LD50): 10946 mg/kg (Rabbit) (Calculated value of the mixture)
Acute effect on Humans	
Eyes:	Slightly hazardous in case of eye contact (irritant)
Skin:	Sensitization of the product: N/A Slightly hazardous in case of skin contact (irritant) skin inflammation is characterized by itching, scaling, reddening, or, occasionally blistering.
Inhalation	Slightly hazardous in case of inhalation (lung irritant)
Ingestion	Hazardous in case of ingestion.
Chronic Effects on Humans	
Carcinogenic Effects:	N/A
Mutagenic effects:	N/A
Teratogenic Effects:	N/A
Development toxicity:	N/A
	The substance may be toxic to kidneys. Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION: 12. ECOLOGICAL INFORMATION

Possibly hazardous short term degradation products are not likely. However long term degradation products may arise. Avoid any pollution of ground, surface or underground water.

SECTION: 13. DISPOSAL CONSIDERATION

Incineration or sanitary landfill in accordance with local, provincial and federal regulations. Check with disposal expert to insure compliance

SECTION: 14. TRANSPORT INFORMATION

TDG Classification: Not controlled under TDG Canada; Check appropriate authority



MATERIAL SAFETY DATA SHEET

IATA Shipping (Air): N/A; Check appropriate authority
IMDG Shipping N/A; Check appropriate authority

SECTION: 15. REGULATORY INFORMATION

WHMIS (Canada): Not controlled under WHMIS Canada
Regulatory Lists CEPA DSL: 1,2,3-Propanetriole, Water
OSHA: hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)
Other Regulations EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
Other Classifications: HCS (U.S.A.) Class: target organ effects
USA Regulatory Lists TSCA 8(d) Hand S data reporting: 1,2,3-Propanetriol
DSCL (EEC) R16-Explosive when mixed with oxidizing substances
HMIS Rating: Health: 0
Flammability: 0
Reactivity: 0

SECTION: 16. OTHER INFORMATION

Revision Date: October 17, 2011

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SECTION: 17. DISCLAIMER

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CERTIFICATE OF ANALYSIS

Product: Glycerin Vegetable USP 99.5%
Lot No.: 16005-A40/B40
Manufacturing Date: February 2011
Best Before: February 2013

<u>Properties</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Clear, Liquid	Complies
Odor:	None	Complies
Taste	Sweet	Complies
Solubility: in Water	Easily soluble in hot & cold	Complies
Solubility in Alcohol	Methanol, Acetone	Complies
Specific Gravity:	1.2618	1.249
Flash Point:	199°C	Complies
Melting Point:	18 °C	Complies
Boiling Point:	290°C (554 °F)	Complies
Water, wt %	<0.3	0.14

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CERTIFICATE OF ANALYSIS

Product: Glycerin Vegetable USP 99.5 %
Lot No.: 16005-A41/B41
Manufacturing Date: May 2011
Best Before: April 2013

<u>Properties</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Clear, Liquid	Complies
Odor:	None	Complies
Taste	Sweet	Complies
Solubility: in Water	Easily soluble in hot & cold	Complies
Solubility in Alcohol	Methanol, Acetone	Complies
Specific Gravity:	1.2618	1.2617
Flash Point:	199°C	Complies
Melting Point:	18 °C	Complies
Boiling Point:	290°C (554 °F)	Complies
Water, wt %	<0.3	0.11

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CERTIFICATE OF ANALYSIS

Product: Glycerin Vegetable USP 99.5 %
Lot No.: 16005-A42/B42
Manufacturing Date: March 2011
Best Before: March 2013

<u>Properties</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Clear, Liquid	Complies
Odor:	None	Complies
Taste	Sweet	Complies
Solubility: in Water	Easily soluble in hot & cold	Complies
Solubility in Alcohol	Methanol, Acetone	Complies
Specific Gravity:	1.2618	1.2617
Melting Point:	18 °C	Complies
Boiling Point:	290°C (554 °F)	Complies
Water, wt %	<0.3	0.13

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