

208 South Magnolia Street Sumter, SC 29150 Customer Service 803-778-0264

SAFETY DATA SHEET Nova Molecular Technologies, Inc.	
	Date Issued: 5 May 2015
Propylene glycol	Revision Date: 8 August 2023
117 1 3 3 3 1	Version:1.2

## 1. PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAME: Propylene glycol	24 HR. EMERGENCY TELEPHONE NUMBERS
<b>GENERAL USE:</b> Laboratory chemicals, Manufacture of substances	Emergency Phone: 803-778-0264
GENERIC NAME: Propylene glycol	For emergency, spill, leak, fire, exposure or accident, call: CHEMTREC: 1-800-424-
DISTRIBUTOR:	
Nova Molecular Technologies, Inc.	☐ 9300 ☐ Outside of the United States, call: 703-527-3887
208 South Magnolia Street	(collect calls accepted)
Sumter, SC 29150	]` ,

### 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION	
Classification of the substance or mixture	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Not a hazardous substance or mixture.	
For the full text of the H-Statements mentioned in this Sect	tion, see Section 16.

GHS LABEL	
SIGNAL WORD:	Not a hazardous substance or mixture.
HAZARD STATEMENTS	Not a hazardous substance or mixture.
Precautionary statement(s)	

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Propylene glycol	100 %	57-55-6

## 4. FIRST AID MEASURES

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance.		
EYES:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.		
SKIN:	Wash off with soap and plenty of water. Consult a physician.		
INGESTION:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.		
INHALATION:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.		
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11		
Indication of any immediate medical attention and special treatment needed	No data available		

## 5. FIRE FIGHTING MEASURES

Extinguishing media	
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	No data available
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if
	necessary.
Further information	No data available

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
Reference to other sections	For disposal see section 13.
SPECIAL PROTECTIVE EQUIPMENT: EMERGENCY & NON-EMERGENCY RESPONDERS	Refer to Section 13 of this SDS for appropriate exposure controls and personal protective equipment (PPE).

# 7. HANDLING AND STORAGE

GENERAL PROCEDURES:	Handle in accordance with good industrial hygiene and safety practices. These practices include but are not limited to avoiding unnecessary exposure and prompt removal of material from eyes, skin and clothing. Do not breathe material. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. If needed, take first aid actions as indicated in Section 4 of this SDS.
HANDLING:	Use only with adequate ventilation. Wear appropriate personal protective equipment and use exposure controls as indicated in Section 8 of this SDS. Avoid contact with skin and eyes. Avoid breathing gas. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Do not reuse container. Remove contaminated clothing immediately. Wash with soap and water after working with this product.
STORAGE:	Keep in airtight container away from all heat sources. Store in a segregated and approved area. Store in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Keep container in a well-ventilated area. Store away from incompatible materials. Store in the original container or an approved alternative made from compatible material. Do not store in unlabeled containers. Treat empty containers in a similar fashion as residual product may exist. Use appropriate containment to avoid environmental contamination.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **EXPOSURE GUIDELINES**

EXPOSORE GOIDELINES					
OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
			EXPOSURE LIMITS		
		OSHA	PEL	ACGI	H TLV
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m
Propylene glycol	TWA	N/E	N/E	N/E	N/E
	STEL	N/E	N/E	N/E	N/E

ENGINEERING CONTROLS:	Provide adequate general and local exhaust ventilation to meet exposure limit requirements. Provide readily accessible eye wash stations and emergency showers. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment
	listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

PERSONAL PROTECTIVE EQUIPMENT	
Eye/face protection	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Full contact	Material: Nitrile rubber  Minimum layer thickness: 0.11 mm  Break through time: 480 min  Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact	Material: Nitrile rubber
	Minimum layer thickness: 0.11 mm
	Break through time: 480 min
	Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove contaminated clothing and launder before reuse. Shower after work using plenty of soap and water.
work using pierity of soap and water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

a.	Appearance	Form: liquid, clear, viscous
		Color: colorless
b.	Odor	No data available
C.	Odor Threshold	No data available
d.	рН	No data available
e.	Melting point/freezing point	Melting point/range: -60 °C (-76 °F) - lit.
f.	Initial boiling point and boiling range	187 °C (369 °F) - lit.
g.	Flash point	103 °C (217 °F) - closed cup
h.	Evaporation rate	No data available
i.	Flammability (solid, gas)	No data available
j.	Upper/lower flammability or	Upperexplosionlimit:12.5%(V)
	explosion limits	Lower explosion limit:
		2.6%(V)
k.	Vapor pressure	0.11 hPa (0.08 mmHg) at 20 °C (68 °F)
I.	Vapor density	2.63 - (Air = 1.0)
m.	Relative density	1.036 g/cm3 at 25 °C (77 °F)
n.	Water solubility	No data available
0.	Partition coefficient: n-octanol/water	No data available
p.	Auto ignition temperature	No data available
q.	Decomposition temperature	No data available
r.	Viscosity	No data available
S.	Explosive properties	No data available
t.	Oxidizing properties	No data available
Otl	ner safety information	
Re	lative vapor density	2.63 - (Air = 1.0)

## 10. STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents
Hazardous decomposition products	Other decomposition products - No data available In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

## **ACUTE**

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Propylene glycol	20,000 mg/kg	20,800 mg/kg	No data available

Skin corrosion/irritation	Skin - Human
Okin corresion/irritation	Result: Mild skin irritation - 7 d
Serious eye damage/eye irritation	Eyes - Rabbit
Serious eye damage/eye irritation	Result: Mild eye irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
	NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
	OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: TY2000000
	Gastrointestinal disturbance, Nausea, Headache, Vomiting, Central nervous system depression, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# 12. ECOLOGICAL INFORMATION

Toxicity	
Toxicity to fish	Mortality NOEC – Pimephales Promelas (fathead
	minnows) – 52,930 mg/l – 96 h
Toxicity to daphnia and other aquatic invertebrates	Mortality NOEC – Daphnia (water flea) – 13,020 mg/l – 48 h
	EC50 - Daphnia magna (Water flea) - > 10,000 mg/l - 48 h
Toxicity to algae	No data available
Persistence and degradability	No data available
Biodegradability	No data available
Bio-accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety
	assessment not required/not conducted
Other adverse effects	No data available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product	Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

## 14. TRANSPORT INFORMATION

DOT (US)		
UN number:	Class	Packing Group:
Proper ship	ping name:	Not dangerous goods
Reportable	Quantity (RQ):	
Poison inha	lation hazard:	

IMDG				
UN number:	Class:	Packing Group:	EMS-No:	
Proper shipping name:		Not dangerous goods		

IATA			
UN number:	Class:	Packing Group:	
Proper shipping name:		Not dangerous goods	

#### 15. REGULATORY

Information United States	
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III,
Components	Section 302.
SARA 313	The following components are subject to reporting levels established by SARA Title III,
Components	Section 313:
SARA 311/312	No SARA Hazards
Components	
Massachusetts Right To	
Know Components	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To	Propane-1,2-diol
Know Components	
New Jersey Right To Know	Propane-1,2-diol
Components	
California Prop. 65	This product does not contain any chemicals known to State of California
Components	to cause cancer, birth defects, or any other reproductive harm.

#### 16. OTHER

INFORMATION	
Full text of H-Statements referred to under sections 2 and 3.	
HMIS RATING	
Health Hazard	0
Chronic health hazard	*
Flammability	1
Physical hazard	0
NFPA RATING	
Health Hazard	0
Fire Hazard	1
Reactivity hazard	0

### **DATA**

#### **SOURCES:**

### **REFERENCES**

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Forsberg, K.; Mansdorf, S.Z. Quick Selection Guide to Chemical Protective Clothing. Fifth Edition. Hoboken, NJ. John Wiley & Sons, 2007.

Lide, D.R. CRC Handbook of Chemistry and Physics. 88th Edition. Boca Raton, FL. CRC Press, 2008.

UNECE. Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Third Revised Edition. New York and Geneva. United Nations, 2009.

US DOT; Pipeline and Hazardous Materials Safety Administration. 2008 Emergency Response Guidebook.

Neenah, WI. J.J. Keller & Associates, Inc. 2008.

US EPA. Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA) and Section 112(r) of the Clean Air Act. [Available] Online: <a href="http://www.epa.gov/ceppo/pubs/title3.pdf">http://www.epa.gov/ceppo/pubs/title3.pdf</a>. Retrieved 02/02/2011.

#### ADDITIONAL SDS INFORMATION:

#### **KEY / LEGEND**

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - Agreement on Dangerous Goods by Road

CAA - Clean Air Act

CAS - Chemical Abstracts Service Registry Number

CDG - Carriage of Dangerous Goods By Road and Rail Manual

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

CFR - Code of Federal Regulations

EINECS - European Inventory of Existing Chemical Substances Registry Number

ERG - Emergency Response Guidebook

EPCRA - Emergency Planning and Community Right-to-Know Act

GHS - Globally Harmonized System of Classification and Labeling of Chemicals

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods Code

IMO - International Maritime Organization

N/E - Not Established

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

PPE - Personal Protective Equipment

RCRA - Resource Conversation and Recovery Act

RID - Regulations Concerning the International Transport of Dangerous Goods by Rail

RQ - Reportable Quantities

SARA - Superfund Amendments and Reauthorization Act of 1986

SDS - Safety Data Sheet

TCC - Tag Closed Cup

TDG - Transportation of Dangerous Goods

TLV - Threshold Limit Value

TSCA - Toxic Substance Control Act

UN/NA - United Nations / North American Number

UNECE - United Nations Economic Commission for Europe

US DOT - United States Department of Transportation

US EPA - United States Environmental Protection Agency

Vol. - Volume

WHMIS - Workplace Hazardous Materials Information System

**GENERAL STATEMENTS:** Other information not included anywhere else in this SDS is included in this section if, in fact, such data exists.

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