

#### MATERIAL SAFETY DATA SHEET

# **POLY FF2990 NEUTRAL**

Version Number 1.3 Revision Date 04/06/2004 Page 1 of 6 Print Date *5/17/2004* 

#### 1. PRODUCT AND COMPANY IDENTIFICATION

# BAYONE URETHANE SYSTEMS LLC 2700 Papin Street, St. Louis, MO 63103

Telephone

Product Stewardship (314) 333-7870

Emergency telephone number

CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure

or accident).

Product name

POLY FF2990 NEUTRAL

Product code

FO00004556PA

Chemical Name CAS-No.

Mixture Mixture

Product Use

: Industrial Applications

# 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
1,2,3-Propanetriol	56-81-5	1 - 5
Ethylene glycol	107-21-1	1 - 5

#### 3. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

#### POTENTIAL HEALTH EFFECTS

Routes of Exposure:

: Eyes, Skin contact, Inhalation, Ingestion

Acute exposure

Inhalation

: Excessive inhalation of product vapors, especially during heating or

processing, may be irritating to respiratory system.

Ingestion

: May be harmful if swallowed.

Eyes

: Mild eye irritation

Skin

: Prolonged or repeated skin contact can cause de-fatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Chronic exposure

: Refer to Section 11 for Toxicological Information.

Medical Conditions

Aggravated by Exposure:

: None known.



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4. FIRST AID MEASURES

Inhalation : Move to fresh air in case of accidental inhalation of vapors or fumes

from overheating or combustion. When symptoms persist or in all

cases of doubt seek medical advice.

Ingestion : Drink 1 or 2 glasses of water. Induce vomiting immediately and call

a physician. Never give anything by mouth to an unconscious

person.

Eyes : Immediately flush eye(s) with plenty of water. Seek medical

attention if necessary.

Skin : Wash off immediately with soap and plenty of water. If skin

irritation persists seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash point : Greater than 200 °F (93 °C)

Flammable Limits

Upper explosion limit : No data available Lower explosion limit : No data available

Autoignition temperature : No data available

Suitable extinguishing media : carbon dioxide (CO2), dry chemical, water spray, alcohol-resistant

foamnone.

Special Fire Fighting

Procedures

: Fullface self-contained breathing apparatus (SCBA) used in positive

pressure mode should be worn to prevent inhalation of airborne

contaminants.

Unusual Fire/Explosion

Hazards

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen

(NOx), other hazardous materials, and smoke are all possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear appropriate personal protection during cleanup, such as

impervious gloves, boots and coveralls. Material can create slippery

conditions.

Environmental precautions : The product should not be allowed to enter drains, water courses or

the soil. Should not be released into the environment.

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Package all material in

appropriate container for disposal. Refer to Section 13 of this MSDS

for proper disposal methods.

7. HANDLING AND STORAGE

Handling : Heat only in areas with appropriate exhaust ventilation.



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Storage

: Keep containers dry and tightly closed to avoid moisture absorption

and contamination. Store in a cool dry place. Product is

hygroscopic. Protect from moisture. Keep drums tigthly closed to

prevent contamination.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection

: Under normal handling conditions a respirator may not be required.

Eye/Face Protection

Safety glasses with side-shields.

Hand protection

Protective gloves.

Skin and body protection

: Long sleeved shirts and long pants are adequate for normal handling.

Where operations present a splash or spill potential, employees should wear chemically resistant clothing, boots, apron, gloves, and

eye/face protection.

Additional Protective

Measures

Safety shoes.

General Hygiene Considerations

: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Engineering measures

Heat only in areas with appropriate exhaust ventilation. Provide

appropriate exhaust ventilation at machinery.

# Exposure limit(s)

Components	Value	Exposure time	posure time Exposure type	
1,2,3-Propanetriol	10 mg/m3	Time Weighted Average	Mist.	ACGIH
		(TWA):		
	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
Ethylene glycol	100	Ceiling Limit Value:	Aerosol.	ACGIH
	mg/m3			

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Form

: liquid

Evaporation rate Specific Gravity: : Negligible > 1

Appearance Color

Odor

Viscous : NO PIGMENT

: mild

Bulk density Vapor pressure Not applicable <0.04 mm Hg @

20°C

Melting point/range **Boiling Point:** 

: No data available : Not established

Vapour density

Heavier than air.

Water solubility

: slightly soluble

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No data available

# 10. STABILITY AND REACTIVITY



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Stability

Stable.

Hazardous Polymerization

: Will not occur.

Conditions to avoid

Heating the product above 212 °F (100 °C) in the presence of air may

result in the formation of aldehydes. Product reacts exothermically

with isocyanates.

Incompatible Materials

strong acids and strong bases

Hazardous decomposition

products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen

(NOx), other hazardous materials, and smoke are all possible.

#### 11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

#### Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
56-81-5	1,2,3-Propanetriol	Irritant	Eyes.
107-21-1	Ethylene glycol	Systemic effects	Eyes, Skin, Respiratory system, central nervous system (CNS).

#### LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
56-81-5	1,2,3-Propanetriol	LC50	> 570 mg/m3	rat
		Oral LD50	4,090 mg/kg	mouse
		Dermal LD50	> 10 gm/kg	rabbit
107-21-1	Ethylene glycol	Oral LD50	4,700 mg/kg	rat
		Dermal LD50	9530 ul/kg	rabbit

# Additional Health Hazard Information:

Ethylene glycol 107-21-1 The metabolites may cause reproductive as well as developmental toxicity or birth defects.

#### 12. ECOLOGICAL INFORMATION

Persistence and degradability

No data available

Environmental Toxicity

No data available

Bioaccumulation Potential

Does not bioaccumulate.

Additional advice

No data available



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#### 13. DISPOSAL CONSIDERATIONS

Product

: Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

Contaminated packaging

Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

#### 14. TRANSPORT INFORMATION

U.S. DOT Classification

Refer to specific regulation.

ICAO/IATA (air)

Refer to specific regulation.

IMO / IMDG (maritime)

Refer to specific regulation.

#### 15. REGULATORY INFORMATION

US Regulations:

**OSHA Status** 

Classified as hazardous based on components.

TSCA Status

All components of this product are listed on or exempt from the

TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Not applicable

California Proposition

This product does not contain a substance listed by California Prop

65

65.

SARA Title III Section 302 Extremely Hazardous Substance

Not applicable

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
ETHYLENE GLYCOL	107-21-1	1.86

Canadian Regulations:



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National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
Ethylene glycol	107-21-1	1.86	114

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No. 107-21-1

DSL

All components of this product are on the Canadian Domestic

Substances List (DSL) or are exempt.

National Inventories:

Australia AICS

Listed

China IECS

Listed

Europe EINECS

Not determined

Japan ENCS

Not determined

Korea KECI

Not determined

Philippines PICCS

Listed

# 16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material when used in combination with any other materials and/or in any particular process or processing conditions.