

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Artexon Group	Regulatory Information Number	1-888-877-2560
P.O. Box 9998	Telephone	1-917-289-0770
New York, NY 10038	Emergency telephone	1-646-467-3391

Product name	Polymerized Polyol
Chemical Name	Polymerized Polyol
Chemical Family	-
Formula	-
Synonym	-
Product Use Description	Surfactant

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Phenol, 4,4' (1-Methylethylidene) bis-polymer with (Chloromethyl) Oxirane and propylene oxide	Proprietary	80-85%
Solvent Naphtha (petroleum), heavy arom.	64742-94-5	11-14%
1,2,4-Trimethyl Benzene	95-63-6	< 0.50%
Naphthalene	91-20-3	<2.0%
2-Ethylhexanol	104-76-7	< 2.0 %

SECTION 3: HAZARDS IDENTIFICATION

Physical State	Liquid
Color	Dark Amber
Odor	Aromatic
Emergency Overview	Warning!

- Causes Eye Irritation
- Contains Material Which Causes Damage To The Following Organs: Blood Kidneys, Liver, Respiratory Tract, Skin, Central Nervous System, Eye, Lens Or Cornea
- May Be Harmful If Inhaled Or Swallowed
- May Cause Respiratory Tract Irritation
- Harmful To Aquatic Organisms
- Combustible Liquid And Vapor
- Vapor May Cause Fire
- May Be Harmful To Environment If Released In Large Amounts

Keep away from heat, sparks and flames. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapors and mist. Use only with adequate ventilation and wash thoroughly after handling.

**POSSIBLE CARCINOGENIC**

- Phenol, 4,4'- (1-Methylethylidene) bis-, polymer with (Chloromethyl) Oxirane and propylene oxide: IARC, NTP, OSHA, ACGIH: Not Listed
- Solvent Naphtha (petroleum), heavy arom.: IARC, NTP, OSHA, ACGIH: Not Listed
- 1,2,4-Trimethyl Benzene: IARC, NTP, OSHA, ACGIH: Not Listed
- Naphthalene: ACGIH A4, IARC 2b NTP, OSHA Not Listed
- 2-Ethylhexanol: IARC, NTP, OSHA, ACGIH: Not Listed

SECTION 4: FIRST AID MEASURES**Eye Contact**

Remove contact lenses. Immediately flush eyes with water; for at least 15 minutes. Obtain medical attention without delay, preferable from an ophthalmologist.

Skin Contact

Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse.

Ingestion

Do not induce vomiting. Call a physician and/or transport to emergency facility immediately. Give nothing by mouth. Wash out the mouth with water (do not swallow).

Inhalation

Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: General deterioration in health

SECTION 5: FIRE-FIGHTING MEASURES**Flammability of Product**

Combustible

Auto-ignition Temperature

>454°C (849°F) (Solvent Naphtha (petroleum) heavy arom.)

Flash Points

81.1°C (178°F) Closed Cup

Flammable Limits

LOWER: 0.8% UPPER: 5.7% at 25°C (77°F) for (Solvent Naphtha (petroleum) heavy arom.)



SAFETY DATA SHEET

PAGE: 3
MSDS NUMBER: P9919
REVISION DATE: 01-29-2012

POLYMERIZED POLYOL

Products of Combustion

CO and CO₂

Fire Fighting Media and Instructions

SMALL FIRE: Use dry chemical powder

LARGE FIRE: Use water spray, fog or foam. Do not use a water jet

Protective Clothing (Fire) Approved respirator

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill or Leak

Dilute with water and clean or mop up or absorb with an inert dry material and dispose of in an appropriate container.

Large Spill or Leak

Keep away from heat and other sources of ignition. Stop the leak if not a risk.

SECTION 7: HANDLING AND STORAGE

Handling

Keep away from heat, sparks and flames. Keep container closed when possible and use only with adequate ventilation.

Storage

Keep container in a cool and well ventilated area. Make sure the container is tightly sealed. Do not store near sources of ignition.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Provide readily accessible eyewash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

PERSONAL PROTECTION:

Hand protection

Gloves

Eye protection

Splash Goggles

Skin and body protection

Lab coat or Long sleeve shirts and trousers without cuffs.

**Respiratory**

Vapor Respirator

Personal Protection In Case of Large Spill

Splash goggles. Full suit. Vapor Respirator. Boots. Gloves

Exposure Limits**Ingredient Name****Exposure Limits (United States)**

Phenol, 4,4'- (1-Methylethylidene) bis-,
polymer with (Chloromethyl)Oxirane
and propylene oxide

Not Available

Solvent Naphtha (petroleum), heavy arom.

Not Available

1,2,4-Trimethyl Benzene

NIOSH REL (UNITED STATES, 2001).
TWA: 125 mg/m³ 10 hour(s)
25 ppm 10 hour(s)

Naphthalene

ACGIH TLV (UNITED STATES, 2000)
STEL: 75 mg/m³ 15 minute(s)
STEL: 15 ppm 15 minute(s)
TWA: 52 mg/m³ 8 hour(s)
TWA 10 ppm 8 hour(s)

NIOSH REL (UNITED STATES, 2001).
STEL: 79 mg/m³ 15 minute(s)
STEL: 15 ppm 15 minute(s)
TWA: 50 mg/m³ 8 hour(s)
TWA 10 ppm 8 hour(s)

OSHA FINAL RULE (UNITED STATES, 1989).
STEL: 75 mg/m³ 15 minute(s)
STEL: 15 ppm 15 minute(s)
TWA: 50 mg/m³ 8 hour(s)
TWA 10 ppm 8 hour(s)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Dark Amber

Odor

Aromatic

Physical State

Liquid

**Molecular Weight**

Not Applicable

Molecular Formula

Not Applicable

pH

5.0-8.0 (1% on 3:1 IPA/Water)

Melting/Freezing Point

Not Determined

Density0.99 g/cm³**Solubility**

Insoluble

SECTION 10: STABILITY AND REACTIVITY**Stability and reactivity**

Stable under normal conditions.

Materials to Avoid

Reactive with Oxidizing agents.

Hazardous Polymerization

Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION**Toxicity to Animals (***)Determined From Literature)**

Ingredients Name	Test	Result	Route	Species
Solvent Naphtha (petroleum), heavy arom.	LD50	>2000 mg/kg	Oral	Rat
	LD50	>2000 mg/kg	Dermal	Rabbit
	LC50	>580 ppm (4 hours)	Inhalation	Rat
1,2,4-Trimethyl Benzene	LC50	18000 mg/m ³ (4 hours)	Inhalation	Rat
Naphthalene	LD50	490 mg/kg	Oral	Rat
	LD50	533 mg/kg	Oral	Mouse
	LD50	1200 mg/kg	Oral	Guinea Pig
	LD50	>2500 mg/kg	Dermal	Rabbit



SAFETY DATA SHEET

PAGE: 6
MSDS NUMBER: P9919
REVISION DATE: 01-29-2012

POLYMERIZED POLYOL

Ingredients Name	Test	Result	Route	Species
2-Ethylhexanol	LD50	2000-5000 mg/kg	Oral	Rat
	LC50	>227 ppm (6 h)	Inhalation	Rat
	LD50	>3000 mg/kg	Dermal	Rat

Special Remarks on Toxicity to Animals

Harmful effects are not expected from short periods of contact

Acute Effects Skin

Practically non-toxic in contact with skin

Acute Effects Eyes

Irritating to the eyes

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity Effects: **From Literature**

Ingredients Name	Species	Period	Result
Solvent Naphtha (petroleum), heavy arom.	Fish LC50	96 Hours	<10 mg/L
	Daphnia LC50	48 hours	<10 mg/L
	Algae LC50	72 hours	<10 mg/L
2-Ethylhexanol	Rainbow Trout LC50	96 hours	32-37 mg/L
	Daphnia LC50	48 hours	35 mg/L

Products of Degradation

CO and CO2 and water, halogenated compounds

SECTION 13: DISPOSAL CONSIDERATIONS**Waste from Residues/Unused Products:**

Contact supplier if guidance is required.

Contaminated Packaging:

Dispose of container and unused contents in accordance with federal, state, and local requirements.

SECTION 14: TRANSPORT INFORMATION**DOT CLASSIFICATION**

Proper Shipping Name: Combustible Liquid, n.o.s (Petroleum Solvent)
Label: Combustible Liquid
Packing Group: III
UN Number: NA1993



SAFETY DATA SHEET

PAGE: 7
MSDS NUMBER: P9919
REVISION DATE: 01-29-2012

POLYMERIZED POLYOL

TDG CLASSIFICATION

Proper Shipping Name: NON-HAZARDOUS
UN Number : Not Regulated
Packing Group: N/A

IATA-DGR

Proper Shipping Name: NON-HAZARDOUS
UN Number: Not Regulated
Packing Group: N/A

IMDG

Proper Shipping Name: NON-HAZARDOUS
UN Number Not Regulated
Packing Group: N/A

REMARKS: Not Regulated by ground or rail if shipped or transported in containers less than 450 liters

SECTION 15: REGULATORY INFORMATION

HCS Classification

Toxic
Irritating Material
Target Organ effects
Combustible liquid

US Federal Regulations

TSCA: All components present are listed on the TSCA Inventory
DSL: All components present are listed on the DSL
CERCLA: Hazardous Substance: Naphthalene
SARA 303/304/311/312 Extremely hazardous substances: None
SARA 302/304 emergency planning and notification: None
SARA 313 Reporting requirements:
1,2,4-Trimethyl Benzene <0.5
Naphthalene <2
SARA 313 Supplier Notifications:
1,2,4-Trimethyl Benzene <0.5
Naphthalene <2

State Regulations

Pennsylvania RTK: 1,2,4-Trimethyl Benzene: (environmental hazard, generic environmental hazard); Naphthalene: (environmental hazard, generic environmental hazard)
Massachusetts RTK: 1,2,4-Trimethyl Benzene; Naphthalene
New Jersey: 1,2,4-Trimethyl Benzene; Naphthalene
California Prop 65: Naphthalene



SAFETY DATA SHEET

PAGE: 8
MSDS NUMBER: P9919
REVISION DATE: 01-29-2012

POLYMERIZED POLYOL

WHMIS (Canada)

Class B-3: Combustible Liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F)
Class D-2A/D-2B: Material causing other toxic effects

Hazardous Polymerization

Will not occur

SECTION 16: OTHER INFORMATION

HMIS RATING

HEALTH:	2
FLAMMABILITY:	2
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	C

NFPA

HEALTH 2
FLAMMABILITY 2
REACTIVITY 0

DISCLAIMER: The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product