



Revision Date: December 8, 2022 | Date of Issue: September 1, 2020 | Version Number: 4.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Resin

Product Name: Pango® Sealant Part A

Intended Use of the Product

Mixed with Pango® Sealant Part B; sealant around pipe penetrations.

Company Name, Address, and Telephone of the Responsible Party

Stego Industries, LLC

216 Avenida Fabricante #101

San Clemente, CA 92672 USA

Main Contact Number: (877) 464-7834

Emergency Telephone Number

Emergency Number: 1 (800) 424-9300 (24 Hrs.) CHEMTREC

SECTION 2: HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION

Health Hazards

Skin Corrosion/Irritation: Category 2

Serious Eye Damage/Eye Irritation: Category 1

Skin Sensitizer: Category 1

Carcinogenicity: Category 1A

Toxic to Reproduction: Category 2

Specific Target Organ Toxicity - Repeated Exposure: Category 1

Target Organs

1. Lung

Unknown Toxicity - Health

Acute Toxicity, oral: 21.59 %

Acute Toxicity, dermal: 32.81 %

Acute Toxicity, inhalation, vapor: 100 %

Acute Toxicity, inhalation, dust or mist: 99.56 %

Environmental Hazards

Acute Hazards to the Aquatic Environment: Category 2

Chronic Hazards to the Aquatic Environment: Category 2

Unknown Toxicity - Environment

Acute Hazards to the Aquatic Environment: 31.99 %

Chronic Hazards to the Aquatic Environment: 40.83 %

LABEL ELEMENTS

Signal Word: Danger

Hazard Symbols:



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SECTION 2: HAZARDS IDENTIFICATION *Continued...*

Hazard Statements:

- Causes skin irritation.
- Causes serious eye damage.
- May cause an allergic skin reaction.
- May cause cancer.
- Suspected of damaging fertility or the unborn child.
- Causes damage to organs through prolonged or repeated exposure.
- Toxic to aquatic life with long lasting effects.

Precaution Statements (Prevention):

Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Precaution Statements (Response):

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **IF ON SKIN:** Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse. Collect spillage.

Precaution Statements (Storage): Store locked up.

Precaution Statements (Disposal):

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) Not Otherwise Classified (HNOC): None.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURES

Chemical Identity	CAS#	Content In Percent (%)*
Bisphenol A Polyglycidyl Ether Resin	25068-38-6	50 - <100%
Calcium carbonate	471-34-1	5 - <10%
4-Nonylphenol	84852-15-3	5 - <10%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	1 - <5%
Talc	14807-96-6	1 - <5%
Titanium dioxide	13463-67-7	1 - <5%
Epichlorohydrin polymer	25085-99-8	1 - <2.5%
o-Cresyl glycidyl ether	2210-79-9	0.1 - <1%
Aluminum hydroxide	21645-51-2	0.1 - <1%
Amorphous silica	7631-86-9	0.1 - <1%
Magnesite	546-93-0	0.1 - <1%
Carbon Black	1333-86-4	0.1 - <1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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SECTION 4: FIRST AID MEASURES

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Symptoms: No data available.

Hazards: No data available.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treatment: No data available.

SECTION 5: FIRE-FIGHTING MEASURES

General Fire Hazards: No unusual fire or explosion hazards noted.

SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA

Suitable Extinguishing Media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising From the Chemical: During fire, gases hazardous to health may be formed.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Fire Fighting Procedures: No data available.

Special Protective Equipment for Fire-Fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and Material for Containment and Cleaning Up: Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification Procedures: In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Do not taste or swallow. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes. Avoid contact with eyes, skin, and clothing.

Conditions for Safe Storage, Including Any Incompatibilities: Store locked up.

Installation Temperature Range: 50-140°F (surface), easiest application below 90°F

In-Service Temperature Range: 0-140°F (surface and surrounding)

Exposure to Ultraviolet Radiation/Weather Events: The amount of time between when Pango Sealant is installed and when concrete is placed or other complete protection from sunlight and weather events is provided should be minimized while not exceeding 7 days. Please review the remainder of the SDS and relevant technical data sheets for storage and additional information. If any of the conditions cited above pose a problem for the typical installation of the Pango Sealant, please contact Stego Industries for additional information and solutions.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Calcium carbonate - Total dust	PEL	15 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium carbonate - Respirable fraction	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction	TWA	0.025 mg/m ³	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust	TWA	0.05 mg/m ³	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
	OSHA_ACT	0.025 mg/m ³	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust	PEL	0.05 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
Crystalline Silica (Quartz)/ Silica Sand - Respirable	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Talc - Respirable fraction	TWA	2 mg/m ³	US. ACGIH Threshold Limit Values (2011)
Talc	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Talc - Respirable	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Titanium dioxide	TWA	10 mg/m ³	US. ACGIH Threshold Limit Values (2011)
Titanium dioxide - Total dust	PEL	15 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Titanium dioxide - Respirable fraction	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Total dust	TWA	15 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Respirable fraction	TWA	5 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Titanium dioxide - Total dust	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Aluminum hydroxide - Respirable fraction	TWA	1 mg/m ³	US. ACGIH Threshold Limit Values (2011)
	TWA	5 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Aluminum hydroxide - Total dust	TWA	15 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Aluminum hydroxide - Respirable fraction	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Amorphous silica	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.8 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Magnesite - Total dust	PEL	15 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

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CONTROL PARAMETERS
Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Magnesite - Respirable fraction	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Carbon Black - Inhalable fraction	TWA	3 mg/m ³	US. ACGIH Threshold Limit Values (2011)
Carbon Black	PEL	3.5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium carbonate - Total dust	STEL	20 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Respirable fraction	TWA	3 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust	TWA	10 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust	TWA	10 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction	TWA	0.025 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction	TWA	0.10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust	TWA	0.1 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Talc - Respirable	TWA	2 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Talc	TWA	2 fibers/mL	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Talc - Respirable fraction	TWA	2 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Talc - Respirable dust	TWA	3 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Titanium dioxide - Total dust	TWA	10 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)

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CONTROL PARAMETERS
Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Titanium dioxide - Respirable fraction	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Carbon Black - Inhalable	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Carbon Black - Inhalable fraction	TWA	3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Carbon Black	TWA	3.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Calcium carbonate - Total dust	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Respirable fraction	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium carbonate - Total dust	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction	TWA	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

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CONTROL PARAMETERS

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Talc - Respirable	TWA	2 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Talc	TWA	2 fibers/mL	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Talc - Respirable fraction	TWA	2 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Talc - Respirable dust	TWA	3 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Titanium dioxide - Total dust	TWA	10 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction	TWA	3 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWA	10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust	TWA	10 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Aluminum hydroxide - Respirable	TWA	1 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Aluminum hydroxide - Respirable fraction	TWA	3 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Aluminum hydroxide - Total dust	TWA	10 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Aluminum hydroxide - Respirable fraction	TWA	1 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Aluminum hydroxide - Inhalable fraction	TWA	10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Aluminum hydroxide - Respirable fraction	TWA	3 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Aluminum hydroxide - Total dust	TWA	10 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

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CONTROL PARAMETERS
Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Amorphous silica - Total	TWA	4 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable	TWA	1.5 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable dust	TWA	6 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Magnesite - Total dust.	TWA	10 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Carbon Black - Inhalable	TWA	3 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Carbon Black - Inhalable fraction	TWA	3 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Carbon Black	TWA	3.5 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Stoddard solvent (Mineral Spirits)	STEL	580 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	290 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Stoddard solvent (Mineral Spirits)	TWA	100 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Stoddard solvent (Mineral Spirits)	TWA	100 ppm 525 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Phenol	TWA	5 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Phenol	TWA	5 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Phenol	TWA	5 ppm 19 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

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CONTROL PARAMETERS

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Epichlorohydrin	TWA	0.1 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Epichlorohydrin	TWA	0.5 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Epichlorohydrin	TWA	2 ppm 7.6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
1-Methoxy-2-propanol acetate	TWA	50 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	75 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
1-Methoxy-2-propanol acetate	TWA	50 ppm 270 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
1,2,4-Trimethylbenzene	TWA	25 ppm 123 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
1,2,4-Trimethylbenzene	TWA	25 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
1,2,4-Trimethylbenzene	TWA	25 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
1,2,4-Trimethylbenzene	TWA	25 ppm 123 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

Appropriate Engineering Controls: Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

General Information: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face Protection: Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.

Skin/Hand Protection: Use suitable protective gloves if risk of skin contact.

Other: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

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Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene Measures: Observe good industrial hygiene practices. Do not eat, drink or smoke when using the product. Wash hands after handling. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: liquid

Form: liquid

Color: Gray

Odor: Mild

Odor Threshold: No data available.

pH: No data available.

Melting Point/Freezing Point: No data available.

Initial Boiling Point and Boiling Range: No data available.

Flash Point: > 93 °C > 200 °F (Setaflash Closed Cup)

Evaporation Rate: Slower than Ether

Flammability (solid, gas): No

UPPER/LOWER LIMIT ON FLAMMABILITY OR EXPLOSIVE LIMITS

Flammability Limit - Upper (%): No data available.

Flammability Limit - Lower (%): No data available.

Explosive Limit - Upper (%): No data available.

Explosive Limit - Lower (%): No data available.

Vapor Pressure: No data available.

Vapor Density: Vapors are heavier than air and may travel along the floor and in the bottom of containers.

Relative Density: 1.15

SOLUBILITY(IES)

Solubility in Water: Insoluble in water

Solubility (other): No data available.

Partition Coefficient (n-octanol/water): No data available.

Auto-Ignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity: No data available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous Reactions: No data available.

Conditions to Avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

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SECTION 11: TOXICOLOGICAL INFORMATION *Continued...*

INFORMATION ON LIKELY ROUTES OF EXPOSURE

Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.

Skin Contact: May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

Eye Contact: Causes serious eye damage.

Ingestion: Harmful if swallowed.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

Inhalation: No data available.

Skin Contact: No data available.

Eye Contact: No data available.

Ingestion: No data available.

INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Toxicity (list all possible routes of exposure)

Oral

Product:	ATEmix: 12,088.9 mg/kg
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Dermal

Product:	Not classified for acute toxicity based on available data.
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Specified Substance(s):

Bisphenol A Polyglycidyl Ether Resin	LD 50 (Rat): > 2,000 mg/kg
Calcium carbonate	LD 50 (Rat): > 2,000 mg/kg
o-Cresyl glycidyl ether	LD 50 (Rat): > 2,000 mg/kg
Amorphous silica	LD 50 (Rabbit): > 2,000 mg/kg

Inhalation

Product:	Not classified for acute toxicity based on available data.
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Specified Substance(s):

Titanium dioxide	LC 50 (Rat): 3.43 mg/l
o-Cresyl glycidyl ether	LC 50 (Rat): 6,090 mg/m3
Aluminum hydroxide	LC 50 (Rat): 7.6 mg/l
Amorphous silica	LC 50 (Rat): > 2.08 mg/l

Repeated Dose Toxicity

Product:	No data available.
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Skin Corrosion/Irritation

Product:	No data available.
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Specified Substance(s):

Bisphenol A Polyglycidyl Ether Resin	Irritating. in vivo (Rabbit): Slightly irritating Experimental result, Key study
Calcium carbonate	in vivo (Rabbit): Not irritant Experimental result, Key study
4-Nonylphenol	in vivo (Rabbit): Category 1B Experimental result, Weight of Evidence study
Titanium dioxide	in vivo (Rabbit): Not irritant Experimental result, Supporting study
o-Cresyl glycidyl ether	in vivo (Rabbit): Moderately irritating Experimental result, Supporting study
Aluminum hydroxide	in vivo (Rabbit): Not classified as an Irritant Experimental result, Key study
Amorphous silica	in vivo (Rabbit): Not irritant Experimental result, Key study
Magnesite	In vitro (Human, in vitro reconstituted epidermis model): Not irritant Experimental result, Key study
Carbon Black	in vivo (Rabbit): Not irritant Experimental result, Key study

Continued...

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SECTION 11: TOXICOLOGICAL INFORMATION *Continued...*

Serious Eye Damage/Eye Irritation

Product:	No data available.
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Specified Substance(s):

Bisphenol A Polyglycidyl Ether Resin	Strongly irritating. Rabbit, 24 hrs: Slightly irritating
Calcium carbonate	Rabbit, 24 - 72 hrs: Not irritating
4-Nonylphenol	Rabbit, 24 - 72 hrs: Corrosive
Titanium dioxide	Rabbit, 24 hrs: Not irritating
Aluminum hydroxide	Rabbit, 24 hrs: Not irritating
Amorphous silica	Rabbit, 24 hrs: Not irritating
Magnesite	Reconstituted Corneal Epithelium model, 10 min: Not irritating
Carbon Black	Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

Product:	No data available.
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Carcinogenicity

Product:	No data available.
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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Crystalline Silica (Quartz)/ Silica Sand	Overall evaluation: Carcinogenic to humans.
Talc	Overall evaluation: Not classifiable as to carcinogenicity to humans. Overall evaluation: Possibly carcinogenic to humans.
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.
Carbon Black	Overall evaluation: Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

Crystalline Silica (Quartz)/ Silica Sand	Known To Be Human Carcinogen.
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US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Crystalline Silica (Quartz)/ Silica Sand	Cancer
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GERM CELL MUTAGENICITY

In Vitro

Product:	No data available.
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In Vivo

Product:	No data available.
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Reproductive Toxicity

Product:	Suspected of damaging fertility or the unborn child.
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Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
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Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
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SECTION 11: TOXICOLOGICAL INFORMATION *Continued...*

Target Organs

Specific Target Organ Toxicity - Repeated Exposure: Lung

Aspiration Hazard

Product:	No data available.
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Other Effects:	No data available.
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SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

Acute Hazards to the Aquatic Environment:

Fish

Product:	No data available.
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Specified Substance(s):

Bisphenol A Polyglycidyl Ether Resin	LC 50 (Oncorhynchus mykiss, 96 h): 2 mg/l Experimental result, Key study
4-Nonylphenol	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 0.13825 mg/l Mortality

Aquatic Invertebrates

Product:	No data available.
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Specified Substance(s):

Bisphenol A Polyglycidyl Ether Resin	EC 50 (Daphnia magna, 48 h): 1.8 mg/l Experimental result, Key study
Titanium dioxide	EC 50 (Water flea [Daphnia magna], 48 h): > 1,000 mg/l Intoxication

Chronic Hazards to the Aquatic Environment:

Fish

Product:	No data available.
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Specified Substance(s):

4-Nonylphenol	NOAEL (Oncorhynchus mykiss, 91 d): 0.006 mg/l Experimental result, Key study
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Aquatic Invertebrates

Product:	No data available.
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Specified Substance(s):

Bisphenol A Polyglycidyl Ether Resin	NOEC (Daphnia magna, 21 d): 0.3 mg/l Experimental result, Key study
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Toxicity to Aquatic Plants

Product:	No data available.
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Persistence and Degradability:

Biodegradation

Product:	No data available.
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BOD/COD Ratio

Product:	No data available.
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SECTION 12: ECOLOGICAL INFORMATION *Continued...*

Bioaccumulative Potential:

Bioconcentration Factor (BCF)

Product:	No data available.
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Specified Substance(s):

Bisphenol A Polyglycidyl Ether Resin	Bioconcentration Factor (BCF): 31 Aquatic sediment QSAR, Key study
4-Nonylphenol	Fathead minnow (<i>Pimephales promelas</i>), Bioconcentration Factor (BCF): 988 (Flow through)

Partition Coefficient n-octanol / Water (log Kow)

Product:	No data available.
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Specified substance(s):

Bisphenol A Polyglycidyl Ether Resin	Log Kow: 2.64 - 3.78 25 °C Yes Experimental result, Key study
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Mobility in Soil: No data available.

Other Adverse Effects: Toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods:

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

SECTION 14: TRANSPORT INFORMATION

Not Regulated.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Chemical Identity	Reportable Quantity
4-Nonylphenol	De minimis concentration: TSCA 5(a)(2)% One-Time Export Notification only.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Chemical Identity	OSHA Hazard(s)
Crystalline Silica (Quartz)/ Silica Sand	kidney effects, lung effects, immune system effects, cancer

CERCLA Hazardous Substance List (40 CFR 302.4)

Chemical Identity	Reportable Quantity
Phenol	1000 lbs
Epichlorohydrin	100 lbs

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SECTION 15: REGULATORY INFORMATION *Continued...*

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

Hazard Categories:

- Immediate (Acute) Health Hazards
- Delayed (Chronic) Health Hazard
- Skin Corrosion or Irritation
- Serious Eye Damage or Eye Irritation
- Respiratory or Skin Sensitization
- Carcinogenicity
- Reproductive Toxicity
- Specific Target Organ Toxicity (single or repeated exposure)

SARA 302 Extremely Hazardous Substance

Chemical Identity	Reportable Quantity	Threshold Planning Quantity
Phenol	1000 lbs	- - -
Epichlorohydrin	100 lbs	1000 lbs

SARA 304 Emergency Release Notification

Chemical Identity	Reportable Quantity
Phenol	1000 lbs
Epichlorohydrin	100 lbs

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Phenol	500 lbs
Epichlorohydrin	500 lbs
Bisphenol A Polyglycidyl Ether Resin	10000 lbs
Calcium carbonate	10000 lbs
4-Nonylphenol	10000 lbs
Crystalline Silica (Quartz)/ Silica Sand	10000 lbs
Talc	10000 lbs
Titanium dioxide	10000 lbs
Epichlorohydrin polymer	10000 lbs
o-Cresyl glycidyl ether	10000 lbs
Aluminum hydroxide	10000 lbs
Amorphous silica	10000 lbs
Magnesite	10000 lbs
Carbon Black	10000 lbs

SARA 311/312 Hazardous Chemical

Chemical Identity
4-Nonylphenol

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Chemical Identity	Reportable Quantity
Epichlorohydrin	lbs

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

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SECTION 15: REGULATORY INFORMATION *Continued...*

US STATE REGULATIONS

US. California Proposition 65

WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov



US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Calcium carbonate
Crystalline Silica (Quartz)/ Silica Sand
Talc
Titanium dioxide
Carbon Black

US. Massachusetts RTK - Substance List

Chemical Identity

Calcium carbonate
4-Nonylphenol
Crystalline Silica (Quartz)/ Silica Sand
Talc
Titanium dioxide
Phenol
Epichlorohydrin

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Calcium carbonate
4-Nonylphenol
Crystalline Silica (Quartz)/ Silica Sand
Talc
Titanium dioxide

US. Rhode Island RTK

Chemical Identity

Calcium carbonate
Crystalline Silica (Quartz)/ Silica Sand
Talc
Titanium dioxide

INTERNATIONAL REGULATIONS

Montreal Protocol

Not applicable

Stockholm Convention

Not applicable

Rotterdam Convention

Not applicable

Kyoto Protocol

Not applicable

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SECTION 15: REGULATORY INFORMATION *Continued...*

VOC: When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 0 g/l

Regulatory VOC (less water and exempt solvent):	100 g/l
VOC Method 310:	8.71 %

Inventory Status

Australia AICS:	One or more components in this product are not listed on or exempt from the Inventory
Canada DSL Inventory List:	One or more components in this product are not listed on or exempt from the Inventory
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from the Inventory
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
Mexico INSQ:	One or more components in this product are not listed on or exempt from the Inventory
Ontario Inventory:	One or more components in this product are not listed on or exempt from the Inventory
Taiwan Chemical Substance Inventory:	One or more components in this product are not listed on or exempt from the Inventory

SECTION 16: OTHER INFORMATION

Disclaimer: The information contained herein only applies to the noted product. To the best of our knowledge, having been obtained through our suppliers or third parties, this information is accurate. We make no warranties, express or implied, concerning this information or the safe use of the noted product, and we disclaim liability from loss, damage, or other from the product's use, handling, or storage. Users are responsible for verifying the fitness/suitable of the product for any purposes/applications and for confirming compliance with any/all relevant codes or regulations.

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