

**Section 1: IDENTIFICATION**

GSH Product Identifier: Swiftseal Prime EP11 Part A  
Other means of Identification: Epoxy Resin

Relevant Identified uses of the substance or mixture and uses advised against

Product Use: Potting and Encapsulating  
Area of Application: Industrial applications  
Supplier/Manufacturer: Elastochem Specialty Chemicals Inc.  
37 Easton Road  
Brantford, Ontario N3P 1J4  
Phone (519) 754-1678 Fax (519) 754-4487  
Emergency Telephone #: Chemtrec Emergency Number: 800-424-9300

**Section 2: Hazard Identification**GHS label elementsGHS Classification:

Skin Irritation: Category 2  
Eye Irritation: Category 2A  
Skin Sensitisation: Category 1  
Acute Aquatic Toxicity: Category 2  
Chronic Aquatic Toxicity: Category 2

Hazard Pictograms:

Signal word: Warning

Hazard Statements: Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention: Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/eye protection/face protection.

**Section 3: Composition/information on ingredients**

Substance/mixture: Mixture

Ingredient Name	Concentration	Identification Number
4,4' Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane	60-100%	CAS: 25068-38-6
Oxirane, mono(C8-10- alkyloxy)methyl) derivs	10-30%	CAS: 68609-96-1

**Section 4: FIRST AID MEASURES**Description of necessary first aid measures

**Skin:** Clean exposed area with soap and warm water. Continue to rinse for at least 10 minutes. Remove contaminated clothing. Wash clothes before reuse. Seek medical attention if irritation persists.

**Eyes:** Immediately flush thoroughly with water for at least 15 minutes lifting eye lids occasionally. Seek medical attention if irritation persists.

**Inhalation:** Remove victim to fresh air, if symptoms occur seek medical attention.

**Ingestion:** Wash mouth out with water. Seek medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

None Known.

Over exposure signs/symptoms

Skin Contact: Not available

Eye Contact: Not available

Inhalation: Not available

Ingestion: Not available

Delayed and Immediate effects and also chronic effects from short and long term exposure

Short Term Exposure: Not available

Long Term Exposure: Not available

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Specific Treatments: None

Protection of first aiders: No action shall be taken involving any personal risk or without suitable training. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Section 5: FIRE FIGHTING MEASURES**

**Means of Extinction:** Use extinguishing agent suitable for the surrounding fire. Suitable extinguishing media: Use dry chemical, Water Fog, Carbon Dioxide, or foam.

**Specific hazards arising during fire fighting:** Do not allow run off from fire fighting to enter drains or water courses.

**Hazardous combustion products:** None known.

**Special protective equipment and precautions for fire-fighters:**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training. Fire fighters should wear appropriate protective equipment and self contained breathing apparatus with a full face piece operated in positive pressure mode. Move undamaged containers from immediate hazard area if it can be done safely.

#### Section 6: ACCIDENTAL RELEASE MEASURES

**Spill Procedure:**

Clean up personnel must wear protective equipment to prevent contact with the product. Evacuate the area of all unnecessary personnel. Stop spill at source. Use inert absorbent material such as sand, clay, earth or floor absorbent to clean up spill. Shovel into drums.

**Personal Precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation. Wear personal protection equipment. Remove persons to safety.

**Methods and material for containment and cleaning up:**

Suitable material for taking up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Wash with plenty of water.

#### Section 7: HANDLING AND STORAGE

**Precautions for safe handling:**

**Protective Measures:**

Put on appropriate personal protective equipment. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes, inhalation of vapours and mists. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container and keep tightly closed when not in use.

**Advice on general occupational hygiene:**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands before, eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities:**

Store product in accordance with local regulation. Store product at room temperature away from heat and moisture. Store product in

original container in a dry, cool, and well ventilated area with local exhaust. Keep away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTIONS**

**Exposure Guidelines:** None established.

**Individual Protection Measures**

**Eye Protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists etc.

**Protection for skin:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

**Protection for hands:** Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Respiratory Protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines

**Hygiene Measures:** Wash hands, forearms and face thoroughly after handling chemical products.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance & Colour: Clear	Vapour Pressure: Not available
Physical State: Liquid	Vapour Density: Not applicable
Odour: Not available	Relative Density: Not available
Odour Threshold: Not available	Solubility in water: Insoluble
pH: Not applicable	Partition coefficient: Not available
Melting Point/Freezing Point: Not available	Auto Ignition Temp: Not available
Initial Boiling Point: Not available	Decomposition Temp: Not available
Flash Point: Closed cup: >121.11 °C	Viscosity: Not available
Evaporation Rate: Not available	Specific Gravity: Not available
Lower Flammable Limit: Not available	Explosive Properties: Not available
Upper Flammable Limit: Not available	

**Section 10: STABILITY AND REACTIVITY**

**Chemical Stability:** This is a stable material at room temperature.

**Possibility of Hazardous Reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid:** None known.

**Incompatibility (Materials to avoid):** None known.

**Hazardous decomposition Products:** None known.

**Section 11: TOXICOLOGICAL INFORMATION**Information on toxicological effectsAcute Toxicity:Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane:

Acute oral toxicity/components: LD50 (Rat, female): >2000mg/kg  
Method: OECD Test Guideline 420  
Assessment: The substance or mixture has no acute oral toxicity.

Acute dermal toxicity: LD50 (Rat, male and female): >2000mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity.

Oxirane, mono((C8-10-alkyloxy)methyl) derivs:

Acute oral toxicity/components: LD50 (Rat): >5000mg/kg

Acute Inhalation toxicity: No data available

Skin corrosion/irritation:

Product: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation:

Product: May cause irreversible eye damage.

Respiratory or skin sensitization:

Product: Causes sensitization.

Germ cell mutagenicity:Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane:

Genotoxicity in vitro: Metabolic activation: with and without metabolic activation. Method: OECD Test Guideline 476  
Result: Positive

Genotoxicity in vivo: Cell Type: Germ  
Application Route: Oral  
Method: OECD Test Guideline 478  
Result: Negative  
Cell Type: Somatic  
Application Route: Oral  
Dose: 0-5000mg/kg  
Method: OPPTS 870.5395  
Result: Negative

Carcinogenicity:Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane:

Species: Rat, (male and female)

Application Route: Oral

Exposure time: 24 months

Dose: 15 mg/kg

Frequency of Treatment: 7 days/week

Method: OECD Test Guideline 453

Result: Negative

Species: Mouse (male)

Application Route: Dermal

Exposure Time: 24 months

Dose: 0.1mg/kg

Frequency of Treatment: 3 days/week

Method: OECD Test Guideline 453

Result: Negative

Species: Rat, (female)

Application Route: Dermal

Exposure Time: 24 months

Dose: 1mg/kg

Frequency of Treatment: 5 days/week

Method: OECD Test Guideline 453

Result: negative

Carcinogenicity Assessment: No data available

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.

Reproductive Toxicity:Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane:

Effects on foetal development: Species: Rabbit, female

Application Route: Dermal

General Toxicity Maternal: No observed  
adverse effect level: 30mg/kg body  
weight

Method: Other guidelines

Result: No teratogenic effects

Species: Rabbit, female

Application Route: Oral

General Toxicity Maternal: No observed  
adverse effect level: 180mg/kg body weight

Method: OECD Test Guideline 414

Result: No teratogenic effects

Reproductive Toxicity-Assessment: No data available

STOT-single exposure: No data available

STOT-repeated exposure: No data available

Repeated Dose Toxicity:

Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane:

Species: Rat, male and female

NOAEL: 50mg/kg

Application Route: Ingestion

Exposure time: 14 weeks

Number of Exposures 7 days

Method: Subchronic toxicity

Species: Rat, male and female

NOEL: 10mg/kg

Application Route: Skin contact

Exposure time: 13 weeks

Number of exposures: 5 days

Method: Subchronic toxicity

Species: Mouse, rat

NOAEL: 100mg/kg

Application Route: Skin contact

Exposure time: 13 weeks

Number of exposures: 3 days

Method: Subchronic toxicity

Repeated dose toxicity-assessment: No data available

Aspiration Toxicity: No data available

**Section 12: ECOLOGICAL INFORMATION****Ecotoxicity:**

Components: 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane:

Toxicity to Fish: LC50 (Oncorhynchus mykiss (rainbow trout): 1.5mg/l

Exposure time: 96 hours

Test type: static test

Test substance: Fresh Water

Method: OECD Test Guideline 203

Components: 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane:

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna water flea): 2.7 mg/l  
Exposure time: 48 hours  
Test type: static test  
Test substance: Fresh water

Components:

Components: 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane:

Toxicity to algae: EC50 (Selenastrum capricornutum (green algae)): 9.4mg/lg  
Exposure time: 72 hours  
Test type: Static test  
Test substance: Fresh water  
Method: EPA-660/3-75-009

M-Factor (Acute aquatic toxicity): no data available

Toxicity to fish: (Chronic toxicity): no data available

Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane:

Toxicity to daphnia and other aquatic invertebrates (Chronic aquatic toxicity): NOEC (Daphnia magna (water flea)): 0.3mg/l  
Exposure time: 21 days  
Test type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 211

M Factor (Chronic aquatic toxicity): no data available

Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane:

Toxicity to microorganisms: IC50 (activated sludge): >100mg/l  
Exposure time: 3 hours  
Test type: static test  
Test substance: Fresh water

Toxicity to soil dwelling organisms: no data available

Plant toxicity: no data available

Sediment toxicity: no data available

Toxicity to terrestrial organisms: no data available

Ecotoxicity assessment acute aquatic toxicity: no data available

Components:

Oxirane, mono((C8-10-alkyloxy)methyl)) derivs

Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects



Toxicity Data on Soil: no data available

Other organisms relevant to the environment: no data available

**Persistence and degradability:**

Components:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane:

Biodegradability: Inoculum: Sewage (STP effluent)

Concentration: 20 mg/l

Result: No readily biodegradable

Biodegradation: 5%

Exposure Time: 28 days

Method: OECD Test Guideline 301F

Biological Oxygen Demand (BOD): no data available

**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal Procedure:**

Comply with Federal, provincial, and local regulations on reporting releases.

Consult your local or regional authorities.

**Section 14: TRANSPORT INFORMATION**

**TDG (TRANSPORTATION OF DANGEROUS GOODS) CLASSIFICATION:** UN3082

**Class:** 9

**Packing Group:** III

**Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S.

**Special Precautions:** Not available

**Section 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

**Section 16: OTHER INFORMATION**

**References:** Canadian Guide of the Law and Regulations of the Transportation of Dangerous Goods. Controlled products regulations. Manufacturer's Safety Data Sheet.

**Regulatory Affairs Department:** 519-754-1678

**DATE:** November 20, 2024

**REVISION** 1

**PREPARED BY:** Regulatory Affairs group,  
Elastochem Specialty Chemicals Inc.

**Section 1: IDENTIFICATION**

GSH Product Identifier: Swiftseal Prime EP11 Part B  
Other means of Identification: None

Relevant Identified uses of the substance or mixture and uses advised against

Product Use: Epoxy Curative  
Area of Application: Industrial applications  
Supplier/Manufacturer: Elastochem Specialty Chemicals Inc.  
37 Easton Road  
Brantford, Ontario N3P 1J4  
Phone (519) 754-1678 Fax (519) 754-4487  
Emergency Telephone #: Chemtrec Emergency Number: 800-424-9300

**Section 2: Hazard Identification****Classification of the substance or mixture:**

Acute Toxicity: Oral Category 4  
Acute Toxicity: Dermal Category 4  
Skin Corrosion/irritation - Category 1B  
Skin Sensitization - Category 1  
Serious Eye Damage - Category 1  
Acute Aquatic Toxicity - Category 3  
Chronic Aquatic Toxicity - Category 3  
Germ Cell Mutagenicity - Category 2  
Reproductive Toxicity - Category 2  
Specific Target Organ systemic toxicity - repeated exposure  
(Inhalation)-Category 2  
Specific Target Organ systemic toxicity - repeated exposure (Dermal) -  
Category 2  
Acute Aquatic Toxicity - Category 1  
Chronic Aquatic Toxicity - Category 1

GHS label elements

Hazard Pictograms:



Signal word: Danger

Hazard Statements: Toxic if swallowed or in contact with skin.  
Causes severe skin burns and eye damage.  
Causes serious eye damage.  
Suspected of causing genetic defects.

Suspected of damaging fertility or the unborn child.  
May cause allergic skin reaction.  
May cause damage to organs (Central nervous system) through prolonged or repeated exposure in contact with skin.  
May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.  
Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention: Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke with using this product. Wear protective gloves, protective clothing, eye protection, face protection.

Section 3: Composition/information on ingredients

Substance/mixture: Mixture

Other means of identification: Not available

Ingredient Name	Concentration	Identification Number
Polyaliphatic Amine Mixture	40%-70%	Trade Secret
Nonyl Phenol	30%-60%	84852-15-3

Section 4: FIRST AID MEASURES

Description of necessary first aid measures

**Skin:** Clean exposed area with soap and warm water. Continue to rinse for at least 10 minutes. Remove contaminated clothing. Wash clothes before reuse. Seek medical attention immediately. Chemical burns must be treated promptly by a physician.

**Eyes:** Immediately flush thoroughly with water for at least 15 minutes lifting eye lids occasionally. Seek medical attention immediately. Chemical burns must be treated promptly by a physician.

**Inhalation:** Remove victim to fresh air; give artificial respiration if not breathing. Seek medical attention immediately.

**Ingestion:** Wash mouth out with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting. Seek medical attention immediately.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Skin contact: Toxic and causes severe burns.

Eye Contact: Toxic and causes serious eye damage.

Inhalation: Toxic by inhalation.

Ingestion: Toxic if swallowed. May cause burns to mouth, throat and stomach.

Over exposure signs/symptoms

Skin Contact: Not available.

Eye Contact: Not available.

Inhalation: Not available.

Ingestion: Not available.

Delayed and Immediate effects and also chronic effects from short and long term exposure

Short Term Exposure: Not available

Long Term Exposure: Not available

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific Treatments: None

Protection of first aiders: No action shall be taken involving any personal risk or without suitable training. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Section 5: FIRE FIGHTING MEASURES**

**Means of Extinction:** Use extinguishing agent suitable for the surrounding fire.

**Specific hazards arising during fire fighting:** Do not allow run off from fire fighting to enter drains or water courses.

**Unsuitable Extinguishing Media:** High Volume Water Jet

**Hazardous combustion products:** No hazardous combustion products are known.

**Special protective equipment and precautions for fire-fighters:**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training. Fire fighters should wear appropriate protective equipment and self contained breathing apparatus with a full face piece operated in positive pressure mode. Move undamaged containers from immediate hazard area if it can be done safely.

**Section 6: ACCIDENTAL RELEASE MEASURES****Spill Procedure:**

Clean up personnel must wear protective equipment to prevent contact with the product. Evacuate the area of all unnecessary personnel. Stop spill at source. Use inert absorbent material such as sand, clay, earth or floor absorbent to clean up spill. Shovel into drums.

**Personal Precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation. Wear personal protection equipment.

Remove persons to safety.

**Methods and material for containment and cleaning up:**

Suitable material for taking up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Wash with plenty of water.

## Section 7: HANDLING AND STORAGE

### **Precautions for safe handling:**

#### **Protective Measures:**

Put on appropriate personal protective equipment. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes, inhalation of vapours and mists. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container and keep tightly closed when not in use.

#### **Advice on general occupational hygiene:**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands before, eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas.

#### **Conditions for safe storage, including any incompatibilities:**

Store product in accordance with local regulation. Store product at room temperature away from heat and moisture. Store product in original container in a dry, cool, and well ventilated area with local exhaust. Keep away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTIONS

### **Appropriate Engineering Controls**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, etc) below recommended exposure limits. Handle in accordance with good industrial hygiene and safety practice.

### **Individual Protection Measures**

**Eye Protection:** Eye protection including tightly fitting safety goggles. Wear face shield and protective suit for abnormal processing problems.

**Protection for skin:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

**Protection for hands:** Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling this product.

**Respiratory Protection:** Use a properly fitted, air purifying respirator complying with an approved standard if a risk assessment indicates it is necessary. Respirator selection must be based on known exposure levels and the hazards of the product.

**Hygiene Measures:** Wash hands, forearms and face thoroughly after handling chemical products.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Colour: Clear Amber Liquid	Vapour Pressure: Not available
Physical State: Liquid	Vapour Density: Not available
Odour: Amine Odour	Relative Density: Not available
Odour Threshold: Not available	Solubility in water: Soluble
pH: Not available	Partition coefficient: Not available
Melting Point/Freezing Point: Not available	Auto Ignition Temp: Not available
Initial Boiling Point: >265°C	Decomposition Temp: Not available
Flash Point: Closed cup: Not available	Viscosity: 100-500 cps
Evaporation Rate: Not available	Specific Gravity: 0.96g/mL
Lower Flammable Limit: Not available	Explosive Properties: Not available
Upper Flammable Limit: Not available	

### Section 10: STABILITY AND REACTIVITY

**Chemical Stability:** This is a stable material at room temperature.

**Possibility of Hazardous Reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid:** Avoid all possible sources of ignition (spark or flame).

**Incompatibility (Materials to avoid):** No information available.

**Hazardous decomposition Products:** Carbon monoxide Carbon dioxide (CO<sub>2</sub>) nitrogen oxides, aldehyde, ketones.

### Section 11: TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

Acute Toxicity: No information available

Irritation/Corrosion: Corrosive and destructive to tissue.

Serious Eye Damage/Eye Irritation: May cause irreversible eye damage.

Sensitization: No information available

Mutagenicity: No information available

Carcinogenicity: No information available

Reproductive Toxicity: No information available

Teratogenicity: No information available

Specific Organ Toxicity (single exposure): No information available

Specific Organ Toxicity (repeated exposure): No information available

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not available  
**Persistence and Degradability:** Not available  
**Bioaccumulative Potential:** Not available  
**Mobility in Soil:** Not available  
**Other adverse effects:** Not available

**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal Procedure:**  
Comply with Federal, provincial, and local regulations on reporting releases.  
Consult your local or regional authorities.

**Section 14: TRANSPORT INFORMATION**

**TDG (TRANSPORATION OF DANGEROUS GOODS) CLASSIFICATION:** UN2735  
**Class:** 8 **Packing Group:** II  
**Special Precautions:** Not available

**Section 15: REGULATORY INFORMATION**

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**Section 16: OTHER INFORMATION**

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**DATE:** November 20, 2024 **REVISION** 1  
**PREPARED BY:** Regulatory Affairs group,  
Elastochem Specialty Chemicals Inc.