

**Safety Data Sheet**

According to Canadian Hazardous Products Regulations and WHMIS 2015

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**Revision date:** 03.15.2023**SolarMax 11-60 Resin****SECTION 1: Identification****Product identifier****Product name:** SolarMax 11-60 Resin**Synonyms:** Aliphatic Polyurea Resin**Product code:** 60399**Recommended use of the product and restriction on use****Relevant identified uses:** ALIPHATIC SPRAY ELASTOMER SYSTEM -Resin Component**Uses advised against:** Not determined or not applicable.**Reasons why uses advised against:** Not determined or not applicable.**Manufacturer or supplier details****Manufacturer:****United States**Rhino Linings Corporation  
9747 Businesspark Avenue  
San Diego, CA 92131  
858-450-0441  
www.rhinolinings.com**Emergency telephone number:****North America**CHEMTREC  
800-424-9300 (24/7)**SECTION 2: Hazard identification****GHS classification:**Acute toxicity (oral), category 4  
Eye irritation, category 2A  
Skin sensitization, category 1  
Germ cell mutagenicity, category 2  
Reproductive toxicity, category 1  
Specific target organ toxicity - single exposure, category 1  
Specific target organ toxicity - repeated exposure, category 1  
Acute aquatic hazard, category 3  
Chronic aquatic hazard, category 3**Label elements****Hazard pictograms:**

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**Signal Word:** Danger

### Hazard statements:

- H317 May cause an allergic skin reaction
- H341 Suspected of causing genetic defects.
- H360 May damage fertility or the unborn child.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H302 Harmful if swallowed
- H319 Causes serious eye irritation
- H402 Harmful to aquatic life
- H412 Harmful to aquatic life with long lasting effects

### Precautionary statements:

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P260 Do not breathe dust, fumes, gas, mist, vapours or spray.
- P264 Wash any exposed skin thoroughly with soap and water after handling.
- P270 Do not eat, drink or smoke when using this product
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves, protective clothing, eye protection and face protection.
- P273 Avoid release to the environment
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P330 Rinse mouth
- P302+P352 IF ON SKIN: Wash with plenty of water and soap.
- P333+P313 If skin irritation or rash occurs: Get medical advice or attention.
- P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).
- P363 Wash contaminated clothing before reuse
- P314 Get medical advice or attention if you feel unwell.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337+P313 If eye irritation persists: Get medical advice or attention.
- P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.
- P405 Store locked up
- P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

### Hazards not otherwise classified:

None

## SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: Proprietary	Polyester Polyol	40-50

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CAS number: 37625-56-2	$\epsilon$ -Caprolactone, oligomeric reaction products with propylidynetrimethanol	20-30
CAS number: 93940-97-7	3-[[3-[[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propiononitrile	5-10
CAS number: 77-58-7	Dibutyltin dilaurate	1-5
CAS number: 102-60-3	1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	1-5
CAS number: 1318-02-1	Zeolites	1-5
CAS number: 111-46-6	2,2' -Oxybisethanol diethylene glycol	1-5
CAS number: 1738-25-6	3-dimethylaminopropiononitrile	0.5-1

### Additional Information:

Specific chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold.

## SECTION 4: First-aid measures

### Description of first-aid measures

#### General notes:

Show this Safety Data Sheet to the doctor in attendance.

#### After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

#### After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

#### After eye contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

#### After ingestion:

Not determined or not available.

### Most important symptoms and effects, both acute and delayed

#### Acute symptoms and effects:

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

Causes damage to organs. Effects are dependent on exposure (dose, concentration, contact time).

Acute oral exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea,

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vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

### Delayed symptoms and effects:

Exposure may cause genetic defects. Effects are dependent on exposure (dose, concentration, contact time).

Long term exposure may affect fertility. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior/fertility/ and pregnancy outcome. Long term exposure may also affect development of the unborn child. Symptoms include, but are not limited to: intrauterine growth retardation, pre-term birth, birth defects and postnatal death.

Causes damage to organs through prolonged or repeated exposure. Effects are dependent on exposure (dose, concentration, contact time).

### Immediate medical attention and special treatment

#### Specific treatment:

If exhibiting symptoms of exposure, seek prompt medical attention.

#### Notes for the doctor:

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

#### Unsuitable extinguishing media:

Do not use water jet.

### Specific hazards during fire-fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

### Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

### Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts.

Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers.

Avoid unnecessary run-off of extinguishing media which may cause pollution.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

### Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

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

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Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

### Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

## SECTION 7: Handling and storage

### Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

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

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10). Storage temperature: Protect from temperatures above 30°C (86°F)

## SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
New Brunswick	Dibutyltin dilaurate	77-58-7	8-Hour TWA: 0.1 mg/m <sup>3</sup> (Tin, organic compounds, as Sn)
	Dibutyltin dilaurate	77-58-7	15-Minute STEL: 0.2 mg/m <sup>3</sup> (Tin, organic compounds, as Sn)
Ontario	Dibutyltin dilaurate	77-58-7	8-Hour TWA: 0.1 mg/m <sup>3</sup> (Tin, organic compounds, as Sn)
	Zeolites	1318-02-1	8-Hour TWA: 1 mg/m <sup>3</sup> (Aluminum metal and insoluble compounds, respirable)
Quebec	Dibutyltin dilaurate	77-58-7	8-Hour TWA: 0.1 mg/m <sup>3</sup> (Tin, organic compounds, as Sn)
	Dibutyltin dilaurate	77-58-7	15-Minute STEL: 0.2 mg/m <sup>3</sup> (Tin, organic compounds, as Sn)
British Columbia	Dibutyltin dilaurate	77-58-7	8-Hour TWA: 0.1 mg/m <sup>3</sup> (Tin, organic compounds, as Sn)
	Dibutyltin dilaurate	77-58-7	15-Minute STEL: 0.2 mg/m <sup>3</sup> (Tin, organic compounds, as Sn)
	Zeolites	1318-02-1	8-Hour TWA: 1 mg/m <sup>3</sup> (Aluminum metal and insoluble compounds, respirable)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
Saskatchewan	Dibutyltin dilaurate	77-58-7	8-Hour Contamination Limit: 0.1 mg/m <sup>3</sup> (Tin, organic compounds, as Sn)
	Dibutyltin dilaurate	77-58-7	15-Minute Contamination Limit: 0.2 mg/m <sup>3</sup> (Tin, organic compounds, as Sn)
	Zeolites	1318-02-1	8-Hour Contamination Limit: 10 mg/m <sup>3</sup> (Metal dust and compound, as Al)
	Zeolites	1318-02-1	15-Minute Contamination Limit: 20 mg/m <sup>3</sup> (Metal dust and compound, as Al)
Alberta	Dibutyltin dilaurate	77-58-7	8-Hour TWA: 0.1 mg/m <sup>3</sup> (Tin, organic compounds, as Sn)
	Dibutyltin dilaurate	77-58-7	15-Minute STEL: 0.2 mg/m <sup>3</sup> (Tin, organic compounds, as Sn)
Manitoba	Dibutyltin dilaurate	77-58-7	8-Hour TWA: 0.1 mg/m <sup>3</sup> (Tin, organic compounds, as Sn)
	Dibutyltin dilaurate	77-58-7	15-Minute STEL: 0.2 mg/m <sup>3</sup> (Tin, organic compounds, as Sn)
	Zeolites	1318-02-1	8-Hour TWA: 1 mg/m <sup>3</sup> (Aluminum metal and insoluble compounds, respirable fraction)

### Biological limit values:

No biological exposure limits noted for the ingredient(s).

### Information on monitoring procedures:

Not determined or not applicable.

### Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

### Personal protection equipment

#### Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

#### Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

#### Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure

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limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

### General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance (physical state, color):</b>	Liquid
<b>Odor:</b>	Mild
<b>Odor threshold:</b>	Not determined or not available.
<b>pH-value:</b>	Not determined or not available.
<b>Melting/Freezing point:</b>	Not determined or not available.
<b>Boiling point/range:</b>	$\geq 200^{\circ}\text{C}$ ( $>392^{\circ}\text{F}$ )
<b>Flash point:</b>	$\geq 200^{\circ}\text{C}$ ( $>392^{\circ}\text{F}$ )
<b>Evaporation rate:</b>	Not determined or not available.
<b>Flammability (solid, gaseous):</b>	Not determined or not available.
<b>Explosion limit upper:</b>	Not determined or not available.
<b>Explosion limit lower:</b>	Not determined or not available.
<b>Vapor pressure:</b>	Not determined or not available.
<b>Vapor density:</b>	Not determined or not available.
<b>Density:</b>	Not determined or not available.
<b>Relative density:</b>	Not determined or not available.
<b>Solubilities:</b>	Not determined or not available.
<b>Partition coefficient (n-octanol/water):</b>	Not determined or not available.
<b>Auto/Self-ignition temperature:</b>	Not determined or not available.
<b>Decomposition temperature:</b>	Not determined or not available.
<b>Dynamic viscosity:</b>	Not determined or not available.
<b>Kinematic viscosity:</b>	Not determined or not available.
<b>Explosive properties</b>	Not determined or not available.
<b>Oxidizing properties</b>	Not determined or not available.

## SECTION 10: Stability and reactivity

### Reactivity:

Not reactive under recommended handling and storage conditions.

### Chemical stability:

Stable under recommended handling and storage conditions.

### Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Product is hygroscopic; contamination with moisture will negatively affect product performance. Avoid

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unintended contact with isocyanates; the reaction will generate heat.

### Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

### Incompatible materials:

Strong oxidizing agents. Water, alcohols, amines, bases, acids, copper, aluminum and zinc alloys.

### Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Decomposition products depend upon temperature, air supply and the presence of other materials.

Decomposition products can include and are not limited to: Carbon dioxide. Alcohols. Ethers. Hydrocarbons.

Ketones. Polymer fragments.

## SECTION 11: Toxicological information

### Acute toxicity

#### Assessment:

Harmful if swallowed.

**Product data:** No data available.

#### Substance data:

Name	Route	Result
ε-Caprolactone, oligomeric reaction products with propylidynetrimehanol	oral	LD50 Rat: >2000 mg/kg
3-[[3-[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile	oral	LD50 Rat: >500 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
3-dimethylaminopropionitrile	oral	LD50 Rat: >500 mg/kg
	dermal	LD50 Rabbit: 1213 mg/kg
	inhalation	LC50 Rat: 5.72 mg/L (8 hr [vapor])
Dibutyltin dilaurate	oral	LD50 Rat: 175 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	oral	LD50 Rat: 2890 mg/kg
	dermal	LD50 Rat: >2000 mg/kg
Zeolites	oral	LD50 Rat: >=5110 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rat: >3.35 mg/L (4 hr [dust])
2,2'-Oxybisethanol diethylene glycol	dermal	LD50 Rabbit: 11,890 mg/kg
	inhalation	LC50 Rat: >4.6 mg/L (4 hr Aerosol)
	Oral ATE	LD50 Rat: 500 mg/kg (Conversion point corresponding to Hazard Classification)

### Skin corrosion/irritation

**Assessment:** Based on available data, the classification criteria are not met.

#### Product data:

No data available.

#### Substance data:

Name	Result
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Name	Result
Dibutyltin dilaurate	Causes skin irritation.

#### Serious eye damage/irritation

**Assessment:**

Causes serious eye irritation.

**Product data:**

No data available.

**Substance data:**

Name	Result
3-[[[3-[[[2-cyanoethyl]amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile	Causes serious eye irritation
3-dimethylaminopropionitrile	Causes serious eye irritation.
Dibutyltin dilaurate	Causes serious eye irritation.
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	Causes serious eye irritation.

#### Respiratory or skin sensitization

**Assessment:**

May cause an allergic skin reaction.

**Product data:**

No data available.

**Substance data:**

Name	Result
3-[[[3-[[[2-cyanoethyl]amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile	May cause an allergic skin reaction.
Dibutyltin dilaurate	May cause an allergic skin reaction.

#### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):**

Name	Classification
$\epsilon$ -Caprolactone, oligomeric reaction products with propylidynetrimehanol	Not Applicable

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Name	Classification
3-[[[3-[[[2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile	Not Applicable
3-dimethylaminopropionitrile	Not Applicable
Dibutyltin dilaurate	Not Applicable
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	Not Applicable
Zeolites	Group 3
2,2' -Oxybisethanol diethylene glycol	Not Applicable

### National Toxicology Program (NTP):

Name	Classification
$\epsilon$ -Caprolactone, oligomeric reaction products with propylidynetrimehanol	Not Applicable
3-[[[3-[[[2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile	Not Applicable
3-dimethylaminopropionitrile	Not Applicable
Dibutyltin dilaurate	Not Applicable
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	Not Applicable
Zeolites	Not Applicable
2,2' -Oxybisethanol diethylene glycol	Not Applicable

### Germ cell mutagenicity

#### Assessment:

Suspected of causing genetic defects.

#### Product data:

No data available.

#### Substance data:

Name	Result
Dibutyltin dilaurate	Suspected of causing genetic defects

### Reproductive toxicity

#### Assessment:

May damage fertility or the unborn child.

#### Product data:

No data available.

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### Substance data:

Name	Result
Dibutyltin dilaurate	May damage fertility; May damage the unborn child

### Specific target organ toxicity (single exposure)

#### Assessment:

Causes damage to organs.

#### Product data:

No data available.

#### Substance data:

Name	Result
Dibutyltin dilaurate	Causes damage to the thymus through single exposure.

### Specific target organ toxicity (repeated exposure)

#### Assessment:

Causes damage to organs through prolonged or repeated exposure.

#### Product data:

No data available.

#### Substance data:

Name	Result
3-dimethylaminopropionitrile	Causes damage to peripheral nervous system through prolonged or repeated exposure.
Dibutyltin dilaurate	Causes damage to the immune system through prolonged or repeated exposure.

### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

#### Product data:

No data available.

**Substance data:** No data available.

### Information on likely routes of exposure:

No data available.

### Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

### Other information:

No data available.

## SECTION 12: Ecological information

### Acute (short-term) toxicity

#### Assessment:

Harmful to aquatic life.

**Product data:** No data available.

**Substance data:**

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Name	Result
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Fish LC50 Danio rerio: 150 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 0.6 mg/L (48 hr [mobility])
3-[[3-[[2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile	Fish LC50 Danio rerio: > 120 mg/L (96h)
	Aquatic Invertebrates EC50 Daphnia magna: 48.5 mg/L (48h)
	Aquatic Plants EC50 Desmodemus subspicatus: >100 mg/L (72h)
3-dimethylaminopropionitrile	Fish LC50 Danio rerio: >120 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: >500 mg/L (48 hr [immobilization])
Dibutyltin dilaurate	Aquatic Plants EC50 Green Algae: >1 mg/L (72 hr [growth rate])
	Aquatic Invertebrates EC50 Daphnia magna: 1.7 mg/L (48 hr [growth rate])
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	Aquatic Plants EC50 Freshwater algae: 150.67 mg/L (72 hr [growth rate; read-across])
	Fish LC50 Danio rerio: 4870 mg/L (96 hr [read-across])
	Aquatic Invertebrates EC50 Daphnia magna: >100 mg/L (48 hr [mobility; read-across])
Zeolites	Fish LC50 Lagodon rhomboides: >680 mg/L (96 hr [read-across])
	Aquatic Invertebrates EC50 Daphnia magna: 2808 mg/L (24 hr [mobility])
	Aquatic Plants EC50 Desmodemus subspicatus: >1000 mg/L (72 hr [growth rate; read-across])
2,2' -Oxybisethanol diethylene glycol	Fish LC50 Pimephales promelas: 75,200 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: >10000 mg/L (48 hr)
	Aquatic Plants EC50 Freshwater algae: 6500 mg/L (96 hr)

### Chronic (long-term) toxicity

**Assessment:**

Harmful to aquatic life with long lasting effects.

**Product data:** No data available.

**Substance data:**

Name	Result
3-[[3-[[2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile	Aquatic Invertebrates NOEC Daphnia magna: >= 11.3 mg/L (ECHA)
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	Aquatic Invertebrates NOEC Daphnia magna: ≥10 mg/L (21 d)
Zeolites	Fish NOEC Pimephales promelas: >= 86.7 mg/L (30 d)
2,2' -Oxybisethanol diethylene glycol	Fish EC50 Menidia peninsulæ: >1500 mg/L (28 day)
	Aquatic Invertebrates LC50 Americamysis bahia: >1000 mg/L (23 day)

### Persistence and degradability

**Product data:** No data available.

**Substance data:**

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ε-Caprolactone, oligomeric reaction products with propylidynetrimehanol	Substance is readily biodegradable. 86% degradation in water, measured by CO <sub>2</sub> evolution, after 28 days.
3-[[[3-[[[2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile	The substance is not readily biodegradable (<10% degradation after 28d, DOC removal).
3-dimethylaminopropionitrile	The substance is not readily but inherently biodegradable based on biodegradation studies for a structurally related substance. Biodegradation in water of structurally related substance was 90 - 100%, measured by DOC removal, after 28 days.
Dibutyltin dilaurate	Under test conditions, not readily biodegradable in water (23% degradation after 39 days).
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	The substance is not readily biodegradable. 9% degradation in water, measured by O <sub>2</sub> consumption, after 28 days.
Zeolites	Persistence and degradability studies are not applicable to inorganic substances.
2,2' -Oxybisethanol diethylene glycol	Readily biodegradable in water.

### Bioaccumulative potential

**Product data:** No data available.

**Substance data:**

Name	Result
ε-Caprolactone, oligomeric reaction products with propylidynetrimehanol	Log Kow: 2.4; Low potential for bioaccumulation.
3-[[[3-[[[2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile	The substance is not expected to bioaccumulate (log Kow = 2.0).
3-dimethylaminopropionitrile	Bioaccumulation is not expected. Calculated BCF (aquatic organisms): 0.931 - 9.62
Dibutyltin dilaurate	Low potential for bioaccumulation. Log BCF: 2.91 dimensionless.
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	The substance has a low potential for bioaccumulation based on a log Kow ≤ 3.
Zeolites	Bioaccumulation studies are not applicable to inorganic substances.
2,2' -Oxybisethanol diethylene glycol	Bioaccumulation is not expected. BCF: 100 L/kg

### Mobility in soil

**Product data:** No data available.

**Substance data:**

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Name	Result
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Log Kow: 2.4; Low potential for adsorption to solid soil phase.
3-[[3-[[2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile	The substance is slightly mobile. Adsorption to the soil may be expected. (log Koc>3).
3-dimethylaminopropionitrile	The substance is highly mobile in soil with a low potential for adsorption to soil and sediment. Estimated KOC: 9.97 [QSAR]
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	The substance is mobile to highly mobile in soil with a low potential for adsorption to soil and sediment. Estimated Koc: 4.1 - 116 L/kg
Zeolites	Adsorption to soil and sediment is not expected because the substance is inorganic.
2,2' -Oxybisethanol diethylene glycol	Highly Mobile (Koc: 1 L/kg)

### Results of PBT and vPvB assessment

#### Product data:

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

#### Substance data:

##### PBT assessment:

ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Substance is not PBT.
3-[[3-[[2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile	The substance is not identified as a PBT.
3-dimethylaminopropionitrile	The substance is not PBT.
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	The substance is not PBT.
Zeolites	This substance is not PBT.
2,2' -Oxybisethanol diethylene glycol	This substance is not PBT.

##### vPvB assessment:

ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Substance is not vPvB.
3-[[3-[[2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile	The substance is not identified as vPvB.

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3-dimethylaminopropionitrile	The substance is not vPvB.
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	The substance is not vPvB.
Zeolites	This substance is not vPvB.
2,2' -Oxybisethanol diethylene glycol	This substance is not vPvB.

**Other adverse effects:** No data available.

## SECTION 13: Disposal considerations

### Disposal methods:

The generation of waste should be avoided or minimized wherever possible. If product becomes a waste, it does not meet criteria of hazardous waste as defined in 40 CFR 261, Subpart C and D. Do not discharge into sewer system. Spill cleanup residues may still be subject to RCRA storage and disposal requirements.

Dispose waste in compliance with local, state and federal regulations via licensed waste disposal contractor.

### Contaminated packages:

Even after emptying, container may retain residues. Containers should be completely emptied and safely stored until appropriately reconditioned or disposed through licensed contractor in accordance with government regulation. This material and its container must be disposed of in a safe way.

## SECTION 14: Transport information

### Canadian Transportation of Dangerous Goods (TDG)

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>UN transport hazard class(es)</b>	None
<b>Packing group</b>	None
<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None
<b>Additional Information</b>	This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

### International Maritime Dangerous Goods (IMDG)

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>UN transport hazard class(es)</b>	None
<b>Packing group</b>	None

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<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None
<b>Additional Information</b>	This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>UN transport hazard class(es)</b>	None
<b>Packing group</b>	None
<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None
<b>Additional Information</b>	This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

<b>Bulk Name</b>	None
<b>Ship type</b>	None
<b>Pollution category</b>	None

## SECTION 15: Regulatory information

### Canada regulations

#### Domestic substances list (DSL):

37625-56-2	$\epsilon$ -Caprolactone, oligomeric reaction products with propylidynetrimethanol	Listed
93940-97-7	3-[[[3-[[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile	Not Listed
1738-25-6	3-dimethylaminopropionitrile	Not Listed
77-58-7	Dibutyltin dilaurate	Listed
102-60-3	1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	Listed
1318-02-1	Zeolites	Listed

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111-46-6	2,2' -Oxybisethanol diethylene glycol	Listed
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### Non-domestic substances list (NDSL):

37625-56-2	$\epsilon$ -Caprolactone, oligomeric reaction products with propylidynetrimethanol	Not Listed
93940-97-7	3-[[3-[[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propiononitrile	Listed
1738-25-6	3-dimethylaminopropiononitrile	Listed
77-58-7	Dibutyltin dilaurate	Not Listed
102-60-3	1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	Not Listed
1318-02-1	Zeolites	Not Listed
111-46-6	2,2' -Oxybisethanol diethylene glycol	Not Listed

**Additional information:** Not determined.

## SECTION 16: Other information

**Abbreviations and Acronyms:** None

### Disclaimer:

The data set forth in this sheet are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Rhino Linings Corporation makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof. Sections 11/12 Disclaimer (Toxicity/Ecotoxicity): This product itself has not been tested. Information given is based on data on the components and the toxicology of similar products. Section 14 (Transport Information): Information provided in Section 14 is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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### Revision Notes:

Revision Date	Notes
2020-04-07	
2021-10-01	Internal Review
2023-03-15	Internal Review

**End of Safety Data Sheet**