Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 04.07.2020

Revision date: 11.21.2025

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
1001 Ed Rutherford Road
Greenville, TX 75402
858-450-0441
www.rhinolinings.com

Emergency Telephone Number:

North America

CHEMTREC
800-424-9300 (24/7)

SECTION 2: Hazard(s) Identification

GHS Classification:

Acute toxicity (oral), category 4
Eye irritation, category 2A
Skin sensitization, category 1
Germ cell mutagenicity, category 2
Reproductive toxicity, category 1B
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:

Signal Word: Danger

Hazard statements:

H302 Harmful if swallowed
H319 Causes serious eye irritation
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.
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, vapors or spray.
P264 Wash any exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product
P272 Contaminated work clothing must 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 or physician if you feel unwell.
P330 Rinse mouth
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).
P333+P313 If skin irritation or rash occurs: Get medical advice or attention.
P363 Wash contaminated clothing before reuse
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.
P307+P311 If exposed: Call a POISON CENTER or physician.
P314 Get medical advice or attention if you feel unwell.
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
CAS Number: 37625-56-2	ε-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-hydroxyethoxy) ethan-2-ol	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 Swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

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, 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: Firefighting 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:

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
OSHA	Dibutyltin dilaurate	77-58-7	8-Hour TWA-PEL: 0.1 mg/m³ (Tin, Organic Compounds as Sn)
NIOSH	Dibutyltin dilaurate	77-58-7	REL-TWA: 0.1 mg/m³ (Tin, Organic Compounds, except cyhexatin, as Sn - up to 10 hr)
	Dibutyltin dilaurate	77-58-7	IDLH: 25 mg/m³ (Tin, Organic Compounds as Sn)
ACGIH	Dibutyltin dilaurate	77-58-7	8-Hour TWA: 0.1 mg/m³ (Tin, Organic Compounds as Sn)
	Dibutyltin dilaurate	77-58-7	15-Minute STEL: 0.2 mg/m³ (Tin, Organic Compounds as Sn)
	Zeolites	1318-02-1	8-Hour TWA: 1 mg/m³ (Aluminum metal and insoluble compounds, respirable fraction)
United States(California)	Dibutyltin dilaurate	77-58-7	8-Hour TWA-PEL: 0.1 mg/m³ (Tin, Organic Compounds as Sn)
	Dibutyltin dilaurate	77-58-7	15-Minute STEL: 0.2 ng/m³ (Tin, Organic Compounds as Sn)
WEEL	(2-hydroxyethoxy) ethan-2-ol	111-46-6	8-Hour TWA: 10 mg/m³

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 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

Appearance	Liquid
Odor	Mild
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	˃200°C (>392°F)
Flash point (closed cup)	˃200°C (>392°F)
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.

Oxidizing properties	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 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 propylidynetrimethanol	oral	LD50 Rat: >2000 mg/kg
3-[[3-[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propiononitrile	oral	LD50 Rat: >500 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
3-dimethylaminopropiononitrile	oral	LD50 Rat: 1290 mg/kg
	dermal	LD50 Rabbit: 1213 mg/kg
	inhalation	LC50 Rat: 5.72 mg/L (8 hr [vapor])
Dibutyltin dilaurate	oral	LD50 Rat: 45 mg/kg
	dermal	LD50 Rat: >2000 mg/kg
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	oral	LD50 Rat: 2890 mg/kg
	dermal	LD50 Rat: >2000 mg/kg
Zeolites	inhalation	LC50 Rat: >3.35 mg/L (4 hr [dust])
	oral	LD50 Rat: >5110 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg

Name	Route	Result
(2-hydroxyethoxy) ethan-2-ol	dermal	LD50 Rabbit: 13300 mg/kg
	inhalation	LC50 Rat: >4.6 mg/L (4 hr [Aerosol])
	Oral ATE	LD50 Rat: 500 mg/kg

Skin Corrosion/Irritation

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

Product Data:

No data available.

Substance Data: No data available.

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]propiononitrile	Causes serious eye irritation
3-dimethylaminopropiononitrile	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]propiononitrile	May cause an allergic skin reaction.
Dibutyltin dilaurate	May cause an allergic skin reaciton.

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
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Not Applicable
3-[[3-[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propiononitrile	Not Applicable
3-dimethylaminopropiononitrile	Not Applicable
Dibutyltin dilaurate	Not Applicable
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	Not Applicable
Zeolites	Group 3
(2-hydroxyethoxy) ethan-2-ol	Not Applicable

National Toxicology Program (NTP):

Name	Classification
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Not Applicable
3-[[3-[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propiononitrile	Not Applicable
3-dimethylaminopropiononitrile	Not Applicable
Dibutyltin dilaurate	Not Applicable
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	Not Applicable
Zeolites	Not Applicable
(2-hydroxyethoxy) ethan-2-ol	Not Applicable

OSHA Carcinogens: 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.

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 organs (thymus).

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-dimethylaminopropiononitrile	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:

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])

Name	Result
3-[[3-[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propiononitrile	Fish LC50 Danio rerio: > 120 mg/L (96h)
	Aquatic Invertebrates EC50 Daphnia magna: 48.5 mg/L (48h)
	Aquatic Plants EC50 Desmodesmus subspicatus: >100 mg/L (72h)
3-dimethylaminopropiononitrile	Fish LC50 Danio rerio: 681.2 mg/L (96 hr [mortality])
	Aquatic Invertebrates EC50 Daphnia magna: > 500 mg/L (48 hr [mortality])
	Aquatic Plants EC50 Desmodesmus subspicatus: > 500 mg/L (72 hr [growth rate])
Dibutyltin dilaurate	Aquatic Plants EC50 Desmodesmus subspicatus: >1 mg/L (72 hr [growth rate and biomass])
	Aquatic Invertebrates EC50 Daphnia magna: 0.463 mg/L (48 hr [mobility])
	Fish LC50 Danio rerio: 21.2 mg/L (96 hr)
(2-hydroxyethoxy) ethan-2-ol	Fish LC50 Pimephales promelas: 75,222 mg/L (96 hr [mortality])
	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr)
	Aquatic Plants EC50 Raphidocelis subcapitata: > 6500 - < 13000 mg/L (72 hr [growth rate; read-across substance data])
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	Fish LC50 Danio rerio: >120 mg/L (96 hr)
	Aquatic Plants EC50 Raphidocelis subcapitata: >14.746 mg/L (72 hr [growth rate])
Zeolites	Aquatic Invertebrates EC50 Daphnia magna: > 1000 mg/L (48hr [mobility])
	Aquatic Plants EC50 Desmodesmus subspicatus: > 1000 mg/L (72hr [growth rate])

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]propiononitrile	Aquatic Invertebrates NOEC Daphnia magna: >= 11.3 mg/L (ECHA)
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	Aquatic Invertebrates NOEC Daphnia magna: ≥12 mg/L (21 d [reproduction])
Zeolites	Fish NOEC Pimephales promelas: >= 86.7 mg/L (30d)
	Aquatic Invertebrates NOEC Daphnia magna: 130.8 mg/L (21d [Reproduction])
(2-hydroxyethoxy) ethan-2-ol	Aquatic Plants NOEC Raphidocelis subcapitata: > 100 mg/L (72 hr [growth rate])
	Aquatic Invertebrates NOEC Daphnia magna: 7500 - 15000 mg/L (21 d [growth])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Substance is readily biodegradable. 86% degradation in water, measured by CO2 evolution, after 28 days.
3-[[3-[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propiononitrile	The substance is not readily biodegradable (<10% degradation after 28d, DOC removal).
3-dimethylaminopropiononitrile	The substance is readily biodegradable in water. 90- 100 % biodegradation in water, measured by DOC removal, after 28 days.
Zeolites	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.
(2-hydroxyethoxy) ethan-2-ol	The substance is readily biodegradable.102 % degradation in water, measured by DOC removal, after 28 days.
Dibutyltin dilaurate	The substance is not readily biodegradable. 23% degradation in water, measured by O2 consumption, after 39 days.
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	The substance is not readily biodegradable. 20% degradation in water, measured by DOC removal, after 28 days.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Log Kow: 2.4; Low potential for bioaccumulation.
3-[[3-[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propiononitrile	The substance is not expected to bioaccumulate (log Kow = 2.0).
3-dimethylaminopropiononitrile	The substance is not expected to bioaccumulate (BCF: 3.162 L/Kg) [(Q)SAR].
Zeolites	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.
Dibutyltin dilaurate	The substance is not expected to bioaccumulate (BCF: 2.91 dimensionless).
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	The substance is not expected to bioaccumulate (log Pow: -2.08 at 25 °C, QSAR substance data).
(2-hydroxyethoxy) ethan-2-ol	The substance is not expected to bioaccumulate (log Kow= -1.98 at 25 °C).

Mobility in Soil

Product Data: No data available.

Substance Data:

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]propiononitrile	The substance is slightly mobile. Adsorption to the soil may be expected. (log Koc>3).
3-dimethylaminopropiononitrile	The substance is moderately mobile, therefore, there is moderate potential for adsorption to soil and sediment (Log Koc: 2.5 dimensionless) [calculation method].
Zeolites	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.
Dibutyltin dilaurate	Based on the low solubility of the compound it can be predicted that the substance will be very strongly adsorbed to soil.
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	The endpoint is not applicable because the substance has a low octanol water partition coefficient.
(2-hydroxyethoxy) ethan-2-ol	Mobility in soil assessment does not need to be conducted due to low octanol water partition coefficient.

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]propiononitrile	The substance is not identified as a PBT.
3-dimethylaminopropiononitrile	The substance is not PBT.
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	The substance is not PBT.
Zeolites	PBT assessment does not apply to inorganic compounds such as this substance.
(2-hydroxyethoxy) ethan-2-ol	The substance is not PBT.
Dibutyltin dilaurate	The 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]propiononitrile	The substance is not identified as vPvB.
3-dimethylaminopropiononitrile	The substance is not vPvB.
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	The substance is not vPvB.
Zeolites	vPvB assessment does not apply to inorganic compounds such as this substance.
(2-hydroxyethoxy) ethan-2-ol	The substance is not vPvB.
Dibutyltin dilaurate	The 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

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None
Additional Information	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)

UN Number	Not regulated

UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None
Additional Information	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)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None
Additional Information	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.

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA):

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

111-46-6	(2-hydroxyethoxy) ethan-2-ol	Listed - Active

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals:

111-46-6	(2-hydroxyethoxy) ethan-2-ol	Listed

CERCLA:

111-46-6	(2-hydroxyethoxy) ethan-2-ol	Listed	

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know: None of the ingredients are listed.

New Jersey Right to Know:

1738-25-6	3-dimethylaminopropiononitrile	Listed

New York Right to Know:

1738-25-6	3-dimethylaminopropiononitrile	Listed

Pennsylvania Right to Know:

111-46-6	(2-hydroxyethoxy) ethan-2-ol	Listed

California Proposition 65: None of the ingredients are 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. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

NFPA: 2-1-0

HMIS: 2*-1-0

Initial Preparation Date: 04.07.2020

Revision date: 11.21.2025

Revision Notes:

Revision Date	Notes
2020-04-07	
2021-10-21	Internal Review
2023-03-15	Internal Review
2025-11-21	Internal Review

End of Safety Data Sheet