

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 01.03.2012

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Revision date: 03.27.2024

5.3 Epoxy Hardener - Part B

SECTION 1: Identification

Product Identifier

Product Name: 5.3 Epoxy Hardener - Part B

Synonyms: Amidoamine Blend

Product code: 5.3

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: EPOXY SYSTEM - Hardener 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(s) Identification

GHS Classification:

Acute toxicity (oral), category 4

Acute toxicity (dermal), category 4

Acute toxicity (inhalation), category 4

Skin corrosion, category 1B

Serious eye damage, category 1

Skin sensitization, category 1

Reproductive toxicity, category 2

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Specific target organ toxicity - repeated exposure, category 2

Chronic aquatic hazard, category 3

Label elements

Hazard Pictograms:



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Signal Word: Danger

Hazard statements:

- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H317 May cause an allergic skin reaction
- H302 Harmful if swallowed
- H312 Harmful in contact with skin
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H335 May cause respiratory irritation
- H332 Harmful if inhaled
- 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
- P271 Use only outdoors or in a well-ventilated area
- 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
- P310 Immediately call a POISON CENTER.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).
- P363 Wash contaminated clothing before reuse
- P333+P313 If skin irritation or rash occurs: Get medical advice or attention.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P405 Store locked up
- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- 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: 68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	50-60
CAS Number: 2855-13-2	Isophorone diamine	5-15

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CAS Number: 112-24-3	Triethylenetetramine	5-10
CAS Number: Proprietary	Polyamide	5-10
CAS Number: 100-51-6	Benzyl Alcohol	1-5
CAS Number: Proprietary	Cycloaliphatic Amines	1-5
CAS Number: Proprietary	Tertiary amine	1-5
CAS Number: 69-72-7	Salicylic acid	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:

Treatment is urgent. Seek emergency medical treatment. Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse.

After Eye Contact:

Immediately 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. Seek immediate medical attention, preferably from an ophthalmologist.

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. Seek immediate medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Exposure to skin may result in redness, pain, burning, inflammation and tissue damage. Exposure to eyes may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision. Exposure via inhalation may result in cough, sore throat, burning sensation and shortness of breath. Exposure via ingestion may result in burns of the mouth and throat, abdominal pain, burning

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sensation in the throat and chest, nausea, vomiting, shock or collapse.

Delayed Symptoms and Effects:

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.

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

Symptoms of exposure may be delayed.

Immediate Medical Attention and Special Treatment

Specific Treatment:

In case of eye contact, seek prompt medical attention while rinsing is continued.

In case of skin contact, seek prompt medical attention while rinsing is continued.

In case of ingestion, seek prompt medical attention.

If respiratory symptoms persist, seek 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

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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). Prevent skin contact. Do not get in eyes. Use only with adequate ventilation. Do not add water to the corrosive product. If it is necessary to mix a corrosive product with water, do so slowly adding the corrosive to cold water, in small amounts, and stir frequently. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use. Keep only in original packaging.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight and away from exit paths. Store in a corrosion-resistant container with a resistant inner liner. Inspect containers and storage area regularly for signs of leak and damage. Store containers at a convenient height for handling, below eye level if possible. High shelving increases the risk of dropping containers, personal injury and exposure. Ensure that appropriate fire fighting and spill-clean up equipment is readily available. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Store separately. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

Recommended storage temperature: 16-32°C (60-90°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
WEEL	Benzyl Alcohol	100-51-6	8-Hour TWA: 44.2 mg/m ³ (10 ppm)
	Triethylenetetramine	112-24-3	8-Hour TWA: 1 ppm

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:

Use safety glasses with side shields or goggles. Consider the use of a face shield for splash protection. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

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Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Full body protection should be worn. 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	Ammoniacal
Odor threshold	Not determined or not available.
pH	Alkaline
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	117°C (243°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.

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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.

Conditions to Avoid:

Avoid generation of aerosols and mists, extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Incompatible Materials:

N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Sodium hypochlorite. Organic acids (i.e. acetic acid, citric acid etc.). Mineral Acid Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Oxidizing agents.

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In fire conditions, depending on temperature, air supply and presence of other materials, decomposition products can include, but are not limited to Nitric Acid, Ammonia, Nitrogen Oxides, Nitrogen oxide can react with water vapors to form corrosive nitric acid, carbon monoxide, Carbon dioxide, or Nitrosamine.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment:

Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

Product Data: No data available.

Substance Data:

Name	Route	Result
Benzyl Alcohol	oral	LD50 Rat: 1610 mg/kg
	inhalation	LC50 Rat: >4.178 mg/L (4 hr [aerosol])
	dermal	LD50 Rabbit: >2000 mg/kg
Triethylenetetramine	oral	LD50 Rat: 1591 mg/kg
	dermal	LD50 Rabbit: 1464.5 mg/kg
Isophorone diamine	oral	LD50 Rat: 1030 mg/kg
	inhalation	LC50 Rat: > 5.01 mg/L (4 hr [aerosol])
	dermal	LD50 Rat: >2000 mg/kg
Salicylic acid	oral	LD50 Rat: 891 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg

Skin Corrosion/Irritation

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Assessment:

Causes severe skin burns and eye damage.

Product Data:

No data available.

Substance Data:

Name	Result
Triethylenetetramine	Causes severe skin burns.
Isophorone diamine	Causes severe skin burns.
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Causes skin irritation.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye damage.

Product Data:

No data available.

Substance Data:

Name	Result
Benzyl Alcohol	Causes serious eye irritation.
Triethylenetetramine	Causes serious eye damage.
Isophorone diamine	Causes serious eye damage.
Salicylic acid	Causes serious eye damage
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Causes serious eye irritation.

Respiratory or Skin Sensitization

Assessment:

May cause an allergic skin reaction.

Product Data:

No data available.

Substance Data:

Name	Result
Triethylenetetramine	May cause an allergic skin reaction.
Isophorone diamine	May cause an allergic skin reaction.
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	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
Benzyl Alcohol	Not Applicable

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Name	Classification
Triethylenetetramine	Not Applicable
Isophorone diamine	Not Applicable
Salicylic acid	Not Applicable
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Not Applicable

National Toxicology Program (NTP):

Name	Classification
Benzyl Alcohol	Not Applicable
Triethylenetetramine	Not Applicable
Isophorone diamine	Not Applicable
Salicylic acid	Not Applicable
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Not Applicable

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

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

Product Data:

No data available.

Substance Data: No data available.

Reproductive Toxicity

Assessment:

Suspected of damaging fertility or the unborn child.

Product Data:

No data available.

Substance Data:

Name	Result
Salicylic acid	Suspected of damaging the unborn child.

Specific Target Organ Toxicity (Single Exposure)

Assessment:

May cause respiratory irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	May cause respiratory irritaton.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment:

May cause damage to organs through prolonged or repeated exposure.

Product Data:

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Mixed polycycloaliphatic amines was tested in rats for systemic effects in a subchronic (28-day) oral study at doses ranging from 15 to 300 mg/kg/day. Effects seen at 300 mg/kg/day included decreased survival, decreased body weight gain, increased liver, kidney, and adrenal weights and histological changes in the liver, kidney, adrenals and spleen. The No-Observed-Adverse-Effect-Level (NOAEL) was 15 mg/kg/day. Rats exposed orally to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No Observed Adverse Effect Level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in a two-year study with rats and mice.

Substance Data: No data available.

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

Product Data: No data available.

Substance Data:

Name	Result
Benzyl Alcohol	Fish LC50 Pimephales promelas: 460 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 230 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Raphidocelis subcapitata: 770 mg/L (72 hr [growth rate])
Triethylenetetramine	Aquatic Invertebrates EC50 daphnia magna: 31.1 mg/L (48 hr [mobility])
	Fish LC50 Pimephales promelas: 330 mg/L (96hr)
	Aquatic Plants EC50 Raphidocelis subcapitata: 20 mg/L (72 hr [growth rate])
Isophorone diamine	Aquatic Plants EC50 Desmodesmus subspicatus: >50 mg/L (72 hr [growth rate])
	Fish LC50 Leuciscus idus: 110 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 23 mg/L (48 hr [mobility])
Salicylic acid	Aquatic Invertebrates EC50 Daphnia magna: 870 mg/L (48 hr [mobility])
	Fish LC50 Pimephales promelas: 1370 mg/L (96 hr [Read-across substance data])
	Aquatic Plants EC50 Desmodesmus subspicatus: >100 mg/L (72 hr [growth])

Chronic (Long-Term) Toxicity

Assessment:

Harmful to aquatic life with long lasting effects.

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Product Data: No data available.

Substance Data:

Name	Result
Benzyl Alcohol	Fish NOEC Freshwater fish: 48.897 mg/L (30 d [mortality, QSAR substance data])
	Aquatic Invertebrates NOEC Daphnia magna: 51 mg/L (21 d [reproduction])
Triethylenetetramine	Aquatic Invertebrates EC50 Daphnia magna: > 3.2 - < 10 mg/L (21 d [immobilization])
Isophorone diamine	Aquatic Invertebrates NOEC Daphnia magna: 3 mg/L (21 d [reproduction])
Salicylic acid	Aquatic Invertebrates NOEC Daphnia magna: 10 mg/L (21 d [reproduction])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Benzyl Alcohol	The substance is readily biodegradable. 92 - 96% degradation in water, measured by O ₂ consumption after 14 days.
Triethylenetetramine	The substance is not readily biodegradable. No degradation was observed during the test period.
Isophorone diamine	The substance is not readily biodegradable. 8% degradation in water, measured by DOC removal, after 28 days.
Salicylic acid	The substance is inherently biodegradable. 90% degradation in water, measured by DOC removal, after 4 days.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Triethylenetetramine	The substance has a low potential to bioaccumulate based on the log Pow of -2.90 to -2.08.
Salicylic acid	The substance is not expected to bioaccumulate (log Kow=2.25 at 25 °C).
Benzyl Alcohol	The substance is not expected to bioaccumulate (log Pow= 1 at 20 °C and BCF= 1. 1.371 L/kg- QSAR data).
Isophorone diamine	The substance is not expected to bioaccumulate (BCF: 76.22 L/kg, QSAR substance data, aquatic organisms: Fish).

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Triethylenetetramine	The substance is slightly mobile in soil with a high potential for adsorption to soil and sediment. Log Koc: 3.5
Benzyl Alcohol	The substance is mobile, therefore, adsorption to soil is not expected (log Koc= 1.332 L/kg, QSAR substance data).
Isophorone diamine	The substance is moderately mobile, therefore, there is moderate potential for adsorption to soil and sediment (Koc: 928 at 25 °C, QSAR substance data).

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Name	Result
Salicylic acid	The substance is mobile, therefore, there is low potential for adsorption to soil and sediment (log Koc: 1.54).

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:

Benzyl Alcohol	The substance is not PBT.
Isophorone diamine	The substance is considered as P (persistent), but not as bioaccumulative or toxic.
Salicylic acid	The substance is not PBT.

vPvB assessment:

Benzyl Alcohol	The substance is not vPvB.
Isophorone diamine	The substance is considered as vP (very persistent), but not as bioaccumulative or toxic.
Salicylic acid	The substance is not vPvB.

Other Adverse Effects:

Do not allow to enter soil, waterways or waste water canal.

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	UN2735
UN Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyamidoamine, Aliphatic Amine)
UN Transport Hazard Class(es)	8 
Packing Group	III
Environmental Hazards	None
Special Precautions for User	None

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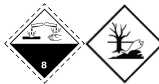
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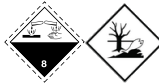
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Additional Information	This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional 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.
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International Maritime Dangerous Goods (IMDG)

UN Number	UN2735
UN Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyamidoamine, Aliphatic Amine)
UN Transport Hazard Class(es)	8 
Packing Group	III
Environmental Hazards	Marine Pollutant
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	UN2735
UN Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyamidoamine, Aliphatic Amine)
UN Transport Hazard Class(es)	8 
Packing Group	III
Environmental Hazards	Marine Pollutant
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.

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SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

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: None of the ingredients are listed.

CERCLA: None of the ingredients are 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:

100-51-6	Benzyl Alcohol	Listed
112-24-3	Triethylenetetramine	Listed

New Jersey Right to Know:

112-24-3	Triethylenetetramine	Listed
2855-13-2	Isophorone diamine	Listed

New York Right to Know:

112-24-3	Triethylenetetramine	Listed
2855-13-2	Isophorone diamine	Listed

Pennsylvania Right to Know:

100-51-6	Benzyl Alcohol	Listed
112-24-3	Triethylenetetramine	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. 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.

NFPA: 3-1-0

HMIS: 3*-1-0

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Revision Notes:

Revision Date	Notes
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2012-01-03	
2015-03-25	Internal Review
2024-03-27	Internal Review

End of Safety Data Sheet