

Safety Data Sheet (SDS)
According to 1907/2006/EC(REACH), 1272/2008/EC(CLP), and GHS

Section 1: Identification of the Substance/Mixture and the Company/Undertaking

Product Name: RIO-COAT ERS Part B

Product Code: RIO-COAT ERS Part B

Rio Flooring Systems Inc. 2926 Chester Avenue
Cleveland, OH 44114 United States

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Recommended Use: For industrial use only.

Section 2: Hazard(s) Identification

Emergency Overview: Danger. Causes severe skin burns and eye damage. Harmful if swallowed. May cause skin sensitization.

Causes Component Information/Information on Non-Hazardous Components: No data available.GHS

Classification of the Substance or Mixture (29 CFR 1910.1200):

Skin corrosion	Category 1C
Serious eye damage	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Hazard Symbol



Signal Word(s)

DANGER

Hazard Statement(s)

H302 +H332 - Harmful if swallowed or if inhaled
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage.
H332 - Harmful if inhaled
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
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long-lasting effects.

Precautionary Statement(s)

P201 – Obtain special instructions before use
 P202 – Do not handle until all safety precautions have been read and understood
 P260 - Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
 P264 - Wash skin thoroughly 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.
 P273 – Avoid release to the environment
 P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P281 – Use personal protective equipment as required
 P280 - Wear protective gloves and eye protection
 P301 + P330 + P331 – IF SWALLOWED: rinse mouth. Do NOT induce vomiting
 P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 P304 + P340 + P310 – IF INHALED: Remove victim to fresh and keep at rest in a position comfortable for breathing.
 Immediately call a POISON CENTER or doctor/physician
 P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a POISON CENTER or doctor/physician.
 P307 + P311 – If exposed: Call a POISON CENTER or doctor/physician
 P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention
 P391 – Collect spillage

Storage:

P403 + P235 - Store in a well-ventilated place. Keep cool.
 P405 - Store locked up.

Disposal:

P501 - Dispose of contents/container to an approved waste disposal plant in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Additional Information

None known.

Hazard(s) not otherwise classified (HNOC):

None known.

Section 3:Composition/Information on Ingredients

Composition/information on ingredients	%W/W	CAS No.	Hazard Statements(s)
Isophorone Diamine	30-45	2855-13-2	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335
Proprietary acrylic polymer	10-30	Trade Secret	Not classified as dangerous for supply/use.
Crystalline Silica, Quartz	10-20	Trade Secret	STOT RE 1; H372 Carc 1A; H340
Proprietary ester-diluents	10-20	100-51-6	Skin Sens. 1B; H317 STOT RE 2; H373 Aquatic Acute 2; H401

Section 4: First Aid Measures

Description of first aid measures

Inhalation	Move victims into fresh air. If breathing is labored, administer oxygen. If not breathing, give artificial respiration. Consult a doctor.
Skin Contact	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. contaminated shoes before reuse.
Eye Contact	Rinse immediately with plenty of water for 15 minutes and seek advice of an eye specialist/physician. Continue rinsing.
Ingestion	Rinse out mouth, spit out liquid. Do not induce vomiting and seek medical advice immediately. Never give anything by mouth.

Section 5: Fire-Fighting Measures

Extinguishing Media

- | | |
|----------------------------------|---|
| - Suitable Extinguishing Media | Water spray, alcohol-resistant foam, CO2, dry powder. None anticipated. |
| - Unsuitable Extinguishing Media | High volume water jet. |

Unusual Fire and Explosion Hazards:

Firefighters should wear NFPA approved self-contained breathing apparatus and full protective clothing. Avoid contact with product. Decontaminate equipment and protective clothing prior to re-use. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

Hazardous Decomposition Products:

On combustion, toxic gases, including nitrogen oxides, carbon monoxide, carbon dioxide, tin/tin oxides

Advice for fire fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire, including self-contained breathing apparatus and NFPA compliant helmet, hood, boots and gloves. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Toxic gases/fumes may be given off during burning or thermal decomposition.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment. Evacuate surrounding areas and isolate the area. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Implement site emergency response plan.

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform authorities if the product has caused environmental pollution (sewers, drains, waterways or soil).

Methods and material for containment and cleaning up

Cleanup personnel must use appropriate personal protective equipment. Evacuate and keep unnecessary personnel out

personnel out of spill area. Remove all sources of ignition, including flames, heat, and sparks. Stop leak if without risk. Move containers from spill area. Dike or dam spilled material with non-combustible, absorbent material (e.g., sand, earth, vermiculite or diatomaceous earth) and control further spillage, where possible. Make certain the absorbent material soaks up all liquids.

Section 7: Handling and Storage

Precautions for safe handling Do not breathe vapors or spray mist. Avoid contact with eyes or skin. Avoid contact with clothing. Use only with adequate ventilation and personal protection. Remove contaminated personal protective equipment (PPE), then wash hands and face thoroughly after handling and before eating and drinking. Keep container closed when not in use. Empty containers retain product residue and can be hazardous. Do not get in eyes, on skin or on clothing. Do not ingest. Keep away from heat, sparks, flames and other sources of ignition. Avoid release to the environment. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination with moisture is suspected. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

Conditions for safe storage,: Keep away from food products during use and storage. Storage class (TRGS 510): non-combustible, acute toxic Category 3/toxic hazardous materials or hazardous materials causing chronic effects. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled, unapproved or reactive containers. Use appropriate containment to avoid environmental contamination. Personnel education and training in the safe use and handling of this product are required under OSHA Hazard Communication Standard 29 CFR 1910.1200.

Incompatible Materials or Ignition Sources: Stable under recommended storage conditions. Do not store together with oxidizing and acidic materials. Do not store together with caustic solutions and alkalis. Store away from food stuffs. Avoid water, air humidity, oxidizing agents, cotton waste or other combustible materials. Keep away from sources of ignition - No smoking. Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

Section 8: Exposure Control/Personal Protection

Special Note for Exposure Control: Consult local authorities for further acceptable exposure limits.

Chemical Name	8hr (TWA)		Note:
	Result	ACGIH/OSHA (STEL)	
Aliphatic Amine	STELs TWAs	No data available. 0.100000 mg/m ³ (OSHA, ACGIH, NIOSH).	
Benzyl Alcohol	PEL STELs TWAs PEL	No data available 10 ppm	

Engineering Measures/Controls: General dilution and local exhaust as necessary to control airborne vapors, mists, dusts, and thermal decomposition products below appropriate airborne concentration standards and guidelines. A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent the build-up of explosive atmospheres and to prevent off-gases from entering the work place.

Environmental Exposure Controls: Avoid release to the environment. Construct a dike to prevent spreading of spills. Emissions or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, drinking or using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workplace. Contaminated work clothing should not be allowed out of the workstation location. Keep away from foodstuffs, beverages and feed.

Personal Protective Equipment

Respiratory: In case of inadequate ventilation, wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Pressure supplied air respirator when airborne concentrations are not known, when airborne levels are 10 times the appropriate TLV, respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Use positive and when spraying is performed or product is applied by aerosol in a confined space or area with limited ventilation. If health and safety professional or manufacturer for specific information.

Contact Eye/Face: Use chemical resistant goggles. Chemical safety goggles in combination with a full face shield (8-inch minimum) must be standards such as NIOSH (US) or EN 166 (EU). Contact lenses should not be worn. Use equipment for eye protection tested and approved under appropriate government. Emergency showers and eyewash stations should be available.

Hands: Use permeation resistant gloves such as neoprene or nitrile. The glove must be impermeable and resistant to the product/the substance/the preparation and varies from manufacturer to manufacturer. Selection of the glove material does not only depend on the material, but also on its quality of the application/use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact and dry hands. The resistance of the glove material and manufacture must be determined in advance with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Skin/Body: Wear rubber or plastic apron and permeation resistant clothing, chemical-resistant gloves, and long-sleeved shirts, and pants. Gloves must be inspected prior to use. Remove and wash contaminated clothing before re-use.

General Industrial Hygiene Considerations: Keep away from food and drink. Wash hands and face after use. Educate and train workers in the safe use and handling of this product. Emergency showers and eyewash stations should be available. Follow all label instructions. Gloves must be inspected prior to use. Remove and wash contaminated clothing before re-use.

Key to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

MSHA = Mine Safety and Health Administration

Section 9: Physical and Chemical Properties

Information on Physical and Chemical Properties

Physical Form	Viscous Liquid.	Appearance/Description	Clear
Color	Colorless	Odor	minimal or no odor
Boiling Point	Not available	Bulk Density	No data available
Specific Gravity	1.02 ± 0.1	UEL	No data available
Water Solubility	Soluble.	LEL	No data available
Flash Point	>93°C (>199°F) TCC	NVW	100%

Section 10: Stability and Reactivity

Reactivity

No data available.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: May react with catalysts, oxidizing agents, peroxides, strong alkali and other radical forming substances.

Conditions to Avoid: Avoid oxidizing agents.

Incompatible Materials: Strong bases, strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and nitrogen oxides.

Section 11: Toxicological Information

ACUTE TOXICITY

For aliphatic amine:

LD50 Oral Rat 1040 mg/kg (OCED Test Guideline 401)

LC50 Inhalation Rat 2.4 mg/l (4h)

For Benzyl Alcohol:

LD50 Oral Rat 1,230 mg/kg

LD50 Rat Inhalation >4.178 mg/l 4 h

LD50 Dermal Rabbit 2,000 mg/kg

For Isophorone Diamine:

LD50 Oral Rat 1,030 mg/kg

Other Information:

On the skin: Caustic effect on skin and mucous membranes.

On the eye: Strong caustic effect.

Sensitization:

Sensitization possible through skin contact.

Sensitizing effect through inhalation is possible by prolonged and repeated exposure.

CARCINOGENICITY

This product does not contain a component that is classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification: IARC, NTP, and OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

REPRODUCTIVE TOXICITY: Presumed human reproductive toxicant.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE: No data available.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: No data available.

ASPIRATION HAZARD: No data available.

ADDITIONAL INFORMATION: RTECS: WH7000000.

TO THE BEST OF OUR KNOWLEDGE THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES OF THIS PRODUCT HAVE NOT BEEN THOROUGHLY INVESTIGATED.

Section 12: Ecological Information

Toxicity

This product is harmful to the environment. Very toxic to fish and other aquatic life with long-lasting effects

Persistence and degradability:	According to the results of tests of biodegradability, this product is partly biodegradable.
Bio-accumulative potential:	Although the product is partly biodegradable, significant residuals remain.
Other adverse effects:	No data available.

Section 13: Disposal Considerations

Waste Treatment Methods: Dispose in accordance with Federal, State, and Local laws and regulations. The generation of waste should be avoided or minimized wherever possible. Offer surplus and non-recyclable solutions to a licensed disposal company. . Contact a licensed professional waste disposal service to dispose of this material. Empty containers should be taken to an approved waste handling site for recycling or disposal. Incineration or landfill should only be considered when recycling is not feasible. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty Container Precautions: Dispose of as unused product. Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental laws and regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

Section 14: Transport Information

	14.1 UN NUMBER	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(es)	14.4 Packing Group	14.5 Environmental Hazards
DOT	2735	Polyamines, Liquid, Corrosive, N.O.S.	8	III	Marine Pollutant
IMO/IMDG	2735	Polyamines, Liquid, Corrosive, N.O.S.	8	III	Marine Pollutant
IATA/ICAO	2735	Polyamines, Liquid, Corrosive, N.O.S., Marine Pollutant	8	III	Marine Pollutant

Special Precautions for User:

None known.

Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code

Section 15: Regulatory Information

State Right to Know

Component	CAS	MA	NJ	PA
None known.	-	-	-	-

Inventory

Component	CAS	Canada DSL	Canada NDSL	TCA
Polyamine epoxy hardener	-	Listed	-	Listed

HMIS Rating: 3 * 1 0

NFPA Rating: 3 1 0

This product is in compliance with the inventory listing of the following countries:

Australia (AICS) listed/registered

Japan (MITI) listed/registered

Korea (KECI) listed/registered
Philippines (PICCS) listed/registered
China listed/registered
New Zealand listed/registered

US Federal Regulations

U.S. – CERCLA/SARA – Hazardous Substances and their Reportable Quantities: None
U.S. – SARA – Section 311/312 Hazard Categories: None
U.S. – CERCLA/SARA – Section 302 Extremely Hazardous Substances TPQs: None
U.S. – CERCLA/SARA – Section 313 – Emissions Reporting: None
U.S. – CERCLA/SARA – Section 313 – PBT Chemical Listing: None
U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 40 CFR 355, Appendix A) Components: None
Extremely Hazardous Substance (U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 40 CFR 372.65) Supplier Notification Required Components: None
Extremely Hazardous Substance (U.S. Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (4 261.2, to determine if that waste is a hazardous waste. 0 CFR 261): Under RCRA it is the responsibility of the person who generates a solidwaste, as defined in 40 CFR

State Regulations:

United States – California

U.S. – California – Proposition 65 – Carcinogens List: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.).

U.S. – California – Proposition 65 – Developmental Toxicity: None

U.S. – California – Proposition 65 – Maximum Allowable Dose Levels (MADL): None

U.S. – California – Proposition 65 – No Significant Risk Levels (NSRL): None

U.S. – California – Proposition 65 – Reproductive Toxicity – Female: None

U.S. – California – Proposition 65 – Reproductive Toxicity – Male: None

Based on information provided by Pflaumer suppliers, this product is considered “DRC Conflict Free” as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716, File No. S7-40-10, Date 08-22-212).

Section16: Other Information

Last Revision Date: NDA

Preparation Date: 06/18/20

DISCLAIMER

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Key to Abbreviations NDA = No data Available