

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: RIOCOAT EVS Epoxy Moisture Mitigation Part B

Product Code: RIOCOAT EVS Part B

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RIO FLOORING SYSTEMS



Section 2: Hazard(s) Identification

GHS Ratings:

Oral Toxicity	Acute Tox. 4	Oral>300+<=2000mg/kg
Dermal Toxicity	Acute Tox. 1	Dermal<=50mg/kg
Skin corrosive	1C	Destruction of dermal tissue: Exposure < 4 hours Observation < 14 days, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Skin sensitizer	1	Skin sensitizer
Reproductive toxin	2	Human or animal evidence possibly with other information

GHS Hazards

H302	Harmful if swallowed
H310	Fatal in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn child

GHS Precautions

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/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P262	Do not get in eyes, on skin, or on clothing
P264	Wash 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
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment, see supplemental first aid information.
P322	Specific measures (see ... on this label)
P330	Rinse mouth
P361	Remove/Take off immediately all contaminated clothing

P363	Wash contaminated clothing before reuse
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P350	IF ON SKIN: Gently wash with soap and water
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
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 continuously 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
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container in accordance with local/regional/national/international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

Signal Word: **Danger**



Section 3: Composition/Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Phenol, styrenated	61788-44-1	40.00% - 50.00%
Propylene glycol diamine, 2-amino-, diether with Propylene	9046-10-0	30.00% - 40.00%
2,4,6-Tri(dimethylaminomethyl)phenol	90-72-2	5.00% - 10.00%
Isophorone diamine	2855-13-2	1.00% - 5.00%
1-(2-Aminoethyl) piperazine	140-31-8	1.00% - 5.00%

Section 4: First Aid Measures

4.1 Description of First Aid Measures

After Inhalation: Supply fresh air. If required provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After Eye Contact: Remove contact lens if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After Skin Contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After Swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting. Call for medical help immediately.

Notes to Physician: Treat symptomatically

Section 5: Firefighting Measures

Flash Point: N/A

LEL:

UEL:

5.1 Extinguishing Media

Alcohol resistant foam
Fire-extinguishing powder
Carbon dioxide

5.2 Special Hazards Arising from the Substance of Mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Hazardous Combustion Products

Carbon oxides

5.4 Advice for Firefighters

Wear self-contained respiratory protective device

5.5 Fire Equipment

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Do not breathe vapors
Avoid contact with skin, eyes and clothing
Remove all non-essential people from the affected area .
Ensure adequate ventilation
Wear protective equipment

6.2 Environmental Precautions: Do not allow to enter sewers/ surface or ground water. Prevent seepage into sewage system, workpits and cellars

6.3 Methods and Materials for Containment and Cleaning Up:

Ensure adequate ventilation.
Pick up and arrange disposal without creating dust.
Dispose of the collected material according to regulations

6.4 Reference to Other Sections

For personal protection see Section 8
For disposal information see Section 13.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

Do not breath vapour/spray
Do not get in eyes, on skin, or on clothing
Ensure good ventilation/exhaustions at the workplace
Make sure that all applicable workplace limits are observed.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Store in cool, dry conditions in well sealed receptacles
Keep receptacle tightly sealed. Store in dry conditions.
Protect from humidity and water

Storage temperature 10 - 50 °C

Do not store together with oxidizing and acidic materials.

Requirements to be Met by Storerooms and Receptacles: Observe all local and national regulations for storage of water polluting products.

7.3 Specific End Use(s)

No further relevant information available.

Section 8: Exposure Controls/Personal Protection			
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Phenol, styrenated 61788-44-1	Not Established	Not Established	Not Established
Propylene glycol diamine, 2-amino-, diether with Propylene 9046-10-0	Not Established	3 mg/m ³ (respirable fraction)	Not Established
2,4,6-Tri (dimethylaminomethyl) phenol 90-72-2	Not Established	Dermal rat: 125 mg/kg	Not Established
Isophorone diamine 2855-13-2	Not Established	Not Established	Not Established
1-(2-Aminoethyl) piperazine 140-31-8	Not Established	Not Established	Not Established

8.1 General Protective and Hygienic Measures

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat, drink, smoke or sniff while working

Keep away foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin

8.2 Personal Protective Equipment

Eye Protection: Safety glasses with side shields. If splashes are likely to occur, wear goggles.

Respiratory Protection: Use suitable respirator protective device in case of insufficient ventilation .

Use suitable respiratory protective device when aerosol or mist is formed.

Protection of Hands: Protective gloves: to avoid skin problems, the glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of Gloves: Neoprene, butyl rubber gloves, the selection of the suitable gloves does not only depend on the material, but also on the further marks of quality and varies from manufacturer to manufacturer several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. Penetration time of Glove Material: Protective gloves should be replaced at the first signs of wear. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Additional Information: The lists that were valid during the creation were used as a basis.

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance: Yellowish Yellowish Melting Point Undetermined Explosion Limits Lower: 1.2 Vol% WPG 8.26 lbs./gal	Odor: Amine-like Vapor Pressure Not Determined Boiling Point >200 C VISCOSITY: BROOK 120 cP
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Section 10: Stability and Reactivity

10.1 Reactivity

Stable under recommended storage conditions. No decomposition if stored and applied as directed.

UNSTABLE

10.2 Chemical Stability

No decomposition if stored and applied as directed.

No data available

10.3 Possibility of Hazardous Reactions

No data available

Hazardous polymerization will not occur.

Section 11: Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 73mg/kg

Dermal Toxicity LD50: 35mg/kg

Component Toxicity

90-72-2

2,4,6-Tri(dimethylaminomethyl)phenol

Oral LD50: 1,200 mg/kg (Rat) Dermal LD50: 1,280 mg/kg (Rat)

140-31-8

1-(2-Aminoethyl) piperazine

Oral LD50: 2,140 µL/kg (Rat) Dermal LD50: 880 µL/kg (Rabbit)

11.1 Information on Toxicological Effects

Routes of Entry:

Ingestion

Target Organs:

No data available

Effects of Overexposure

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			No data available

Section 12: Ecological Information

12.1 Persistence and Degradability

Product: No further relevant information available

12.2 Bioaccumulative Potential

Product: Bioaccumulation: No further relevant information available

Partition coefficient: n-octanol/water: No further relevant information available

12.3 Mobility in Soil

Product: Distribution among environmental compartments: No further relevant information available.

Additional Ecological Information:

General notes: German Hazard Water Class 1

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.4 Results of PBT and vPvB Assessment

Assessment: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

12.5 Other Adverse Effects

Product: No further relevant information available

12.6 Toxicity

Component Ecotoxicity

Isophorone diamine	48 Hr EC50 Daphnia magna: 14.6 - 21.5 mg/L [semi-static] 72 Hr EC50 Desmodesmus subspicatus: 37 mg/L
1-(2-Aminoethyl) piperazine	96 Hr LC50 Pimephales promelas: 1950 - 2460 mg/L [flow-through]; 96 Hr LC50 Poecilia reticulata: >1000 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus mykiss: >=100 mg/L [semi-static] 48 Hr EC50 Daphnia magna: 32 mg/L 72 Hr EC50 Pseudokirchneriella subcapitata: 495 mg/L

Section 13: Disposal Considerations

13.1 Waste Treatment Methods

Product: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches the chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company. Send to a licensed waste management company.

Contaminated Packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers

Section 14: Transport Information

14.1 UN Number

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
ADR	Alkylphenols, liquid, N.O.S. (contains Nonylphenol)	UN3145	III	8
DOT	Alkylphenols, liquid, N.O.S. (contains Nonylphenol)	UN3145	III	8
EMS	Number: F-A, S-B			
IATA	Alkylphenols, liquid, N.O.S. (contains Nonylphenol)	UN3145	III	8
IMDG	Alkylphenols, liquid, N.O.S. (contains Nonylphenol)	UN3145	III	8
TDG	Alkylphenols, liquid, N.O.S. (contains Nonylphenol)	UN3145	III	8

Section 15: Regulatory Information

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

Prop 65 - Chemicals Known to Cause Developmental Toxicity

- None

Prop 65 - Chemicals Known to Cause Cancer:

- None

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

- None

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

- None

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

- None

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

- None

- None

TSCA (Toxic Substances Control Act)

- None

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
USA	Inventory - United States - Section 8(b) Inventory (TSCA)	Yes
Korea	KECL (Korean Existing Chemical and Chemical Substance)	Yes
New Zealand	NZIoC (New Zealand Inventory of Chemicals)	Yes

EU Risk Phrases

Safety Phrase

- None

Section 16: Other Information

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Reviewer Revision

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