

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 EHB - Part B

Product Code: RIOCOAT EHB - Part B

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RIO FLOORING SYSTEMS



Section 2: Hazard(s) Identification

GHS Ratings:

Skin corrosion/irritation	Category 1
Skin sensitizer	Category 1B
Serious eye damage	Category 1
Acute hazard to aquatic environment	Category 3
Chronic hazards to aquatic environment	Category 2

GHS Hazards

H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H402 - Harmful to aquatic life
H410 - Toxic to aquatic life with long lasting effects

GHS Precautions

P102 Keep out of reach of children.
P103 Read label before use
P260 Do not breathe dust/fume/gas/mist/vapours/spray
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face 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 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P321 If skin irritation or burns develop, Call a doctor/physician.
P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 If in eyes, immediately call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

Signal Word: **Danger**



HMIS hazard classification

Health: 2 flammability: 1 reactivity: 0 personal protective equipment: g

Potential health effects**Eyes:**

Will cause burns to eyes. High vapor concentrations can cause severe irritation to the eyes.

Skin:

can cause skin irritation or possible burns to the skin

Ingestion:

Liquid can cause severe damage to mucous membranes if swallowed.

Inhalation:

High concentrations of vapor can cause irritation to the respiratory tract, nausea, and dizziness.

Health hazards (acute and chronic):

Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses.

Medical conditions generally aggravated by exposure:

Respiratory conditions or other allergic ailments.

Carcinogenicity

Osha: no ntp: no iarc: no

Additional carcinogenicity information:

No listed ingredients of this product are regulated as carcinogens.

Section 3: Composition/Information on Ingredients

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
BENZYL ALCOHOL	100-51-6	None	None	None	15-40
3-AMINOMETHYL-3,5,5-TRIMETHYL CYCLOHEXANE	2855-13-2	None	None	None	30-60
2-HYDROXYBENZOIC ACID	69-72-7	None	None	None	1-5
TRIMETHYLHEXAMETHYLENEDIAMINE	25620-58-0	None	None	None	1-5
CYCLOALIPHATIC AMINE ADDUCT	68609-08-5	None	None	None	1-5
Precipitated Silica	112926-00-8	None	80mg/m3	None	10-30
Teta, Reaction Products with propylene oxide	26950-63-0	None	None	None	10-30
Triethylenetetramine	112-24-3	1ppm	6mg/m3	None	5-10

SECTION 3 NOTES:

***No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

Section 4: First Aid Measures**After Inhalation:** Remove victim to fresh air and administer oxygen if necessary.**After Eye Contact:** Flush eyes with water for at least fifteen minutes while lifting upper and lower lids. Get immediate medical assistance.**After Skin Contact:** Flush skin with water for at least 15 minutes and remove all contaminated clothing immediately. Get medical attention if reddening or swelling occurs.**After Swallowing:** Do not induce vomiting. Dilute by giving water or milk to drink if victim is conscious. Get medical attention immediately.

Note to physicians: Treat symptomatically.

Section 5: Firefighting Measures

Suitable Extinguishing Media:

Foam, alcohol foam, CO₂, and water fog.

Flammable Limits in the Air: % by volume

Fire-fighting Procedures:

Toxic fumes will be evolved when this material is involved in a fire. A self-contained breathing apparatus should be available for firefighting. Cool fire exposed containers with water.

Flash Point: 200°F

Method Used: Seta Flash

Section 6: Accidental Release Measures

Methods for cleaning up if spilled or released:

Avoid contact with material. Wear the appropriate safety equipment. Stop spill at source, dyke area to prevent spreading. Pump liquid to salvage tank. Take up remainder with clay or other absorbent and place in disposal containers.

Section 7: Handling and Storage

General Handling:

Avoid all skin contact. Avoid breathing vapors. Reseal partially used containers. Properly label all containers. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Observe conditions of good industrial hygiene and safe working practices.

Mixed materials contain the hazards of all the components, therefore, read the msds of all components to become familiar with all hazards prior to using this product.

Section 8: Exposure Controls/Personal Protection

Respiratory protection:

Niosh approved respirator protection required in the absence of proper environmental controls. For emergencies a self-contained breathing apparatus or a full face respirator is recommended.

Ventilation:

Avoid breathing vapors. Ventilation must be sufficient to control vapors.

Protective gloves:

Impervious gloves – neoprene or rubber

Eye protection:

Splash goggles or glasses with side shields.

Other protective clothing or equipment:

Wear body covering clothing and other coverings as necessary such as apron and appropriate footwear to avoid contact with material.

Work hygienic practices:

Observe good general hygienic practices.

See section three for occupational exposure limit values.

Section 9: Physical and Chemical Properties

Physical and Chemical Properties

Physical State	Liquid
Odor	Amine Odor
Color	Amber Clear
pH	N.A.
Melting point / freezing point	N.A.
Boiling point / boiling range	401°F / 560°F
Evaporation rate	N.A.
Flammability (solid, gas)	N.A.
Flammability Limit in Air	
Upper flammability limit:	N.A.
Lower flammability limit:	N.A.
Vapor pressure	N.A.
Vapor density	N.A.
Specific Gravity	1.0 – 1.1
Water solubility	Negligible
Solubility in other solvents	N.A.
Partition coefficient	N.A.
Autoignition temperature	N.A.
Decomposition temperature	N.A.
Kinematic viscosity	N.A.
Dynamic viscosity	N.A.
Explosive properties	N.A.
Oxidizing properties	N.A.

Section 10: Stability and Reactivity

Reactivity:

No data available.

Conditions to Avoid:

Avoid contact with open flames and all sources of ignitions and sparks. Avoid contact with strong oxidizing agents' mineral acids and epoxy resins in uncontrolled amounts.

Hazardous Reactions/Polymerization:

None under normal processing.

Chemical stability:

Stable under recommended storage conditions.

Hazardous decomposition or by-products:

CO, CO₂, NO_x

Section 11: Toxicological Information

No data for the product itself.

Component data:

Component CAS# 2855-13-2: Oral LD50 rat 1030 mg/kg, Skin irritation – Corrosive subcategory 1C where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days. Eye irritation – Risk of serious damage to eyes. Product Sensitization (Magnusson- Kingman test) guinea pig: may cause sensitization by skin contact. Product Teratogenicity oral rat NOEL (no observed effect level) 250 mg/kg

Component Benzyl Alcohol: Inhalation LC50 (4hr) >4178 mg/l (rat), Dermal LD50 2000 mg/kg (rabbit) Rats exposed to 800 mg/kg 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 two-year study with rats and mice.

Component CAS# 69-72-7: Acute Oral Toxicity LD50 (rat) = 891 mg/kg (behavioral somnolence (general depressed activity, Behavioral muscle weakness)). Acute Inhalation LC50 (rat) >900 mg/m³, 1 hr. Acute Dermal LD50 (rabbit) >10,000 mg/kg. Skin Irritation (rabbit) – mild skin irritation -24hr. Eye Irritation (rabbit) – severe eye irritation.

Component CAS# 112926-00-8: LD50 (rat >5000 mg/kg, LD50 dermal (rat) >2000 mg/kg

Component CAS# 26950-63-0 and CAS# 112-24-3: Ingestion LD50 > 2000 mg/kg (rat) Method Estimated.. Skin LD50 > 2000 mg/kg (rabbit) Method estimated. May cause sensitization by skin contact. Chronic Health hazard: Results from a battery of short term tests on this material or indicate mutagenic activity.

Component Trimethylhexamethylenediamine: Acute oral toxicity LD50 = 910 mg/kg (rat); Component is a serious eye irritant and can cause damage to the eyes.

Section 12: Ecological Information

No data for the product itself.

Component data:

Component CAS# 2855-13-2: Biodegradability 42% and is not readily biodegradable. Bioaccumulation: - no significant accumulation of the substance in organisms is to be expected. Mobility: The soil mobility of the substance is only minimally affected by adsorption to soil components. Toxicity to fish: LC50 *Leuciscus idus* 110 mg/l (96hr). Toxicity to *Daphnia* NOEC 3 mg/l (504hr). EC50 *Daphnia magna* 23 mg/l (48 hr). ErC50 *scenedesmus subspicatus* 50 mg/l (72 hr). NOEC *scenedesmus subspicatus* 1.5 mg/l (72 hr). Toxicity to bacteria: EC10 *Pseudomonas putida* 1120 mg/l (18 hr).

Component Benzyl Alcohol: EC50 (48hr) 400 mg/l *Daphnia Magna*, EC50 (72hr) 2600 mg/l Algae, Biodegradation BOD₂ 62. Slightly or not bioaccumulative. Toxicity to fish: LC50 (96 hr) 10 mg/l Bluegill sunfish (*Lepomis macrochirus*), LC50 (96hr) 460 mg/l Fathead minnow (*Pimephales promelas*), Toxicity to Algae: IC50 (72hr) 700 mg/l

Component CAS# 69-72-7: Toxicity to Fish LC50 (*Leuciscus idus* – 96 mg/l. Toxicity to *Daphnia magna* – 105mg/l, 24 hr. Component Mutagenic Effects: Mutagenic for bacteria and/or yeast. Developmental toxicity: Classified reproductive system toxin/female, development toxin possible.

Component CAS# 112926-00-8: Ecotoxicity: EC50 (fish) .10000 mg/l (*daphnia* >10000 mg/l

Component Trimethylhexamethylenediamine: Biodegradability: not readily biodegradable (7% method EC79/831). Toxicity to fish LC50 = 174mg/l (48h) (*Leuciscus idus melanotus*). Toxicity to *Daphnia* EC50 – 31.5 mg/l (24h). Toxicity to algae EC50 = 29.5 mg/l (72hr) (*scenedesmus subspicatus*). Toxicity to bacteria EC10 = 72 mg/l (16hr) (*Pseudomonas putida*).

Section 13: Disposal Considerations

Waste treatment methods

Disposal of wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: Transport Information

DOT

UN/ID no	UN1760
Proper shipping name	Corrosive liquid n.o.s. (contains isophorone diamine, triethylenetetramine)
Hazard class	8
Packing Group	III

IMO/IMDG

UN/ID no	UN1760
Proper shipping name	Corrosive liquid n.o.s. (contains isophorone diamine, triethylenetetramine, benzyl alcohol)
Hazard class	8
Packing Group	III
Marine Pollutant	yes

Section 15: Regulatory Information

No data for the product itself.

Component data:

Component CAS# 2855-13-2: Acute health hazard. Ingredients on TSCA. International Chemical status listed/registered – EINECS/ELINCS, DSL, AICS, MITI, TCOL, PICCS, China, New Zealand.

Component Benzyl Alcohol: E20/22 Harmful by inhalation and if swallowed. On TSCA list, on DSL Canada
COMPONENT TRIMETHYLHEXAMETHYLENEDIAMINE: Component is on the TSCA list as well as the Canada DSL, EINECS, AICS, EINCS, ECL, SEPA, PICCS lists

Component CAS# 69-72-7: Component is on the Pennsylvania and New Jersey right to know lists. Component is on the TSCA and Canada DSL lists.

Component CAS# 68609-08-5: is on the Canada DSL and TSCA lists.

Component CAS# 112926-00-8: Is not classified as dangerous. National Chemical Inventory listings include – AICS, DSL, IECSC, EINECS, ENCS, KECI, NZLOC, PICCS, TSCA,

Component CAS# 26950-63-0 and CAS# 112-24-3: Acute health hazard, Chronic health hazard. Components are not on the

California Proposition 65 list. Components are on the TSCA and Canada DSL lists as well as the EINECS, AICS, ENCS, ECL, SEPA inventories.

Section 16: Other Information

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Date revised: 4/15/2015