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 EUV Part B

Product Code: RIOCOAT EUV Part B

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

www.riofloor.com
info@riofloor.com
(888) 278-2183

Chemtrec:
800-424-9300
703-741-5970

Section 2: Hazard(s) Identification

GHS Ratings:

Acute toxicity - Oral -	Category 4
Acute toxicity - Dermal -	Category 3
Skin corrosion/irritation -	Category 1 Sub-category B
Serious eye damage/eye irritation -	Category 1
Skin sensitization -	Category 1
Reproductive toxicity -	Category 2
Flammable liquids -	Category 4

GHS Hazards

Harmful if swallowed
Toxic in contact with skin
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child
Combustible liquid
Very toxic to aquatic life

GHS Precautions

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Immediately call a POISON CENTER or doctor/physician
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
Call a POISON CENTER or doctor/physician if you feel unwell
Wash contaminated clothing before reuse
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Do NOT induce vomiting
In case of fire: Use CO_2, dry chemical, or foam for extinction
Store locked up
Store in a well-ventilated place. Keep cool
Dispose of contents/container to an approved waste disposal plant

Signal Word: Danger

Section 3: Composition/Information on Ingredients

Chemical Name	CAS number	% By Weight
4-Nonyl-Phenol, Branched	84852-15-3	15% - 40%
Polyoxypropylenediamine	9046-10-0	15% - 40%
2-Methylpentamethylenediamine	15520-10-2	10% - 30%
Bis A,Epichlorohydrin Epoxy	25068-38-6	5% - 10%

Section 4: First Aid Measures

After Inhalation: Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.
After Eye Contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
After Skin Contact: Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
After Swallowing: Clean mouth with water and drink plenty of water afterwards. Never give anything by mouth to an unconscious person. Call a physician. Do NOT induce vomiting.

Note to physicians: Treat symptomatically.

Section 5: Firefighting Measures

Suitable Extinguishing Media:
Use. Dry chemical. Carbon dioxide (CO2). Water spray (fog). Alcohol resistant foam.

Unsuitable Extinguishing Media: CAUTION: Use of water spray when fighting fire may be inefficient.
Specific Hazards in Case of a Fire:
Keep product and empty container away from heat and sources of ignition. Risk of ignition.
Fire-fighting Procedures:
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Personal Precautions:
Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

Environmental Precautions:
Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

Methods for containment:
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up:
Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.

Section 7: Handling and Storage

General Handling:
Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Storage Conditions:
Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

Incompatible materials:
None known based on information supplied.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines .

NIOSH IDLH Immediately Dangerous to Life or Health

Other:

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Controls:

Showers.

Eyewash stations.

Ventilation systems.

Eye Protection:

Tight sealing safety goggles.

Skin Protection:

No special technical protective measures are necessary.

Respiratory Protection:

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations:

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

Section 9: Physical and Chemical Properties

Physical and Chemical Properties

Physical State	Liquid		
Appearance	No information available	Odor	No information available
Color	No information available	Odor threshold	No information available

pH	N.A.
Melting point / freezing point	N.A.
Boiling point / boiling range	>= 34°C / 93°F
Flash point	83°C / 181°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	0.95
Water solubility	N.A.
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.
Softening point	N.A.
Molecular weight	N.A.
Liquid Density	7.91 lbs/gal
Bulk density	N.A.
Percent solids by weight	99.5%
Percent volatile by weight	0.5%
Percent solids by volume	99.5%
Actual VOC (lbs/gal)	0
Actual VOC (grams/liter)	4.7
EPA VOC (lbs/gal)	0
EPA VOC (grams/liter)	4.7
EPA VOC (lb/gal solids)	0

Section 10: Stability and Reactivity

Reactivity:
No data available.

Conditions to Avoid:
Heat, flames and sparks.

Hazardous Reactions/Polymerization:
None under normal processing.

Chemical stability:
Stable under recommended storage conditions.

Section 11: Toxicological Information

Information on likely routes of exposure

Product Information	No data available.
Inhalation	No data available.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
4-Nonyl-Phenol, Branched 84852-15-3	= 1300 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	-
Polyoxypropylenediamine 9046-10-0	= 242 mg/kg (Rat)	= 360 mg/kg (Rabbit)	-
2-Methylpentamethylenediamine 15520-10-2	= 1170 mg/kg (Rat)	-	= 4.1 mg/L (Rat) 1 h = 2.9 mg/L (Rat) 1 h
Bis A,Epichlorohydrin Epoxy 25068-38-6	= 11400 mg/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.

IARC (International Agency for Research on Cancer)
Group 3 - Not classifiable as a human carcinogen

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information:
The following values are calculated based on chapter 3.1 of the GHS document mg/kg

Section 12: Ecological Information

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

Very toxic to aquatic life with long lasting effects

16.06% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
4-Nonyl-Phenol, Branched 84852-15-3	0.36 - 0.48: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 1.3: 72 h Desmodesmus subspicatus mg/L EC50 0.16 - 0.72: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	0.135: 96 h Pimephales promelas mg/L LC50 flow-through 0.1351: 96 h Lepomis macrochirus mg/L LC50 flow-through	0.14: 48 h Daphnia magna mg/L EC50

Persistence and degradability:	No information available.
Bioaccumulation:	No information available.
Other adverse effects:	No information available.

Section 13: Disposal Considerations

Waste treatment methods

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

Contaminated packaging: Do not reuse container.

US EPA Waste Number: U055 U239

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Section 14: Transport Information

DOT

UN/ID no	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Hazard class	8
Packing Group	III
Reportable Quantity (RQ)	(Xylene: RQ (kg)= 45.40)
Special Provisions	IB3, T7, TP1, TP28
Marine pollutant	This product contains a chemical which is listed as a marine pollutant according to DOT.
Description	UN1719, Caustic alkali liquids, n.o.s. (4-Nonyl-Phenol, Branched, Xylene), 8, III, Marine pollutant
Emergency Response Guide Number	154

TDG

UN/ID no	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Hazard class	8
Packing Group	III

Special Provisions	16
Description	UN1719, Caustic alkali liquid, n.o.s. (4-Nonyl-Phenol, Branched, Xylene), 8, III

MEX

UN/ID no	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Hazard class	8
Special Provisions	223, 274
Packing Group	III
Description	UN1719, Caustic alkali liquid, n.o.s. (4-Nonyl-Phenol, Branched, Xylene), 8, III

ICAO (air)

UN/ID no	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Hazard class	8
Packing Group	III
Special Provisions	A3
Description	UN1719, Caustic alkali liquid, n.o.s. (4-Nonyl-Phenol, Branched, Xylene), 8, III

IATA

UN Number	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Transport hazard class(es)	8
Packing Group	III
ERG Code	8L
Special Provisions	A3, A803
Description	UN1719, Caustic alkali liquid, n.o.s. (4-Nonyl-Phenol, Branched, Xylene), 8, III

IMDG

UN Number	UN1719
Transport hazard class(es)	8
Packing Group	III
EmS-No	F-A, S-B
Special Provisions	223, 274
Description	UN1719, Caustic alkali liquid, n.o.s. (4-Nonyl-Phenol, Branched, Xylene), 8, III

RID

UN/ID no	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Transport hazard class(es)	8
Packing Group	III
Classification code	C5
Special Provisions	274
Description	UN1719, Caustic alkali liquid, n.o.s. (4-Nonyl-Phenol, Branched, Xylene), 8, III
Labels	8

ADR

UN Number	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Transport hazard class(es)	8
Packing Group	III
Classification code	C5
Tunnel restriction code	(E)
Special Provisions	274
Description	UN1719, Caustic alkali liquid, n.o.s. (4-Nonyl-Phenol, Branched, Xylene), 8, III, (E)
Labels	8

ADN

Proper shipping name	Caustic alkali liquid, n.o.s.
Transport hazard class(es)	8
Packing Group	III
Classification code	C5
Special Provisions	274
Description	UN1719, Caustic alkali liquid, n.o.s. (4-Nonyl-Phenol, Branched, Xylene), 8, III
Hazard label(s)	8
Limited quantity (LQ)	5 L

Equipment Requirements	PP, EP

Section 15: Regulatory Information

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
4-Nonyl-Phenol, Branched	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive hazard	No

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Ethyl Benzene - 100-41-4	Carcinogen
Cumene - 98-82-8	Carcinogen
Propylene oxide - 75-56-9	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts
Xylene 1330-20-7	X	X

U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable

Hazardous air pollutants (HAPS) content
This product contains no Hazardous Air Pollutants individually at 1% by weight, or greater.

Section 16: Other Information

NFPA	Health hazards 2	Flammability 2	Instability 0	Physical & chemical properties -
HMIS	Health hazards 2 *	Flammability 2	Physical hazards 0	Personal protection X

Chronic Hazard Star Legend * = Chronic Health Hazard

Other Information:

* There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for the Skin Corrosion/Irritant Category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases, our system will say UN GHS.

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