# SAFETY DATA SHEET



## 1. Identification

Product identifier RI80 Part B

Other means of identification

Synonyms RI80

**Recommended use**Not available. **Recommended restrictions**None known.

Manufacturer/Importer/Supplier/Distributor information

**Company Name** ErgonArmor, a division of Ergon Asphalt & Emulsions, Inc.

**Address** 2829 Lakeland Drive

Jackson, MS 39232

**USA** 

After hours telephone

number

1-800-222-7122

Normal work hours telephone number

1-877-982-7667

Website www.ergonarmor.com
E-mail sds@ergon.com

**Emergency 24-hour** telephone number

CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887

**Information on operation** 8:00 a.m. to 5:00 p.m.

hours

# 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Skin corrosion/irritation Category 1

Serious eye damage/eye irritation Category 1
Sensitization, skin Category 1

**Environmental hazards** Not classified. **OSHA defined hazards** Not classified.

**Label elements** 



Signal word Danger

**Hazard statement** Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye

damage.

**Precautionary statement** 

**Prevention** Do not breathe mist or vapor. Wash thoroughly after handling. Contaminated work clothing must

not be allowed out of the workplace. Wear protective gloves/protective clothing/eye

protection/face protection.

**Response** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing

before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. Specific treatment see Section 4 of this SDS. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs:

Get medical advice/attention.

**Storage** Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

**Supplemental information** 

Not applicable.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
BENZYL ALCOHOL		100-51-6	35-45
3-AMINOMETHYL-3,5,5-TRIMETHYL CYCLOHEXYLAMINE		2855-13-2	20 - < 30
TRIMETHYLHEXAMETHYLENE DIAMINE		25620-58-0	5 - < 10
[3-(aminoethyl)phenyl]methanamin e		1477-55-0	7.28
3-AMINOPROPYLTRIETHOXYSILANE		919-30-2	1-10

#### 4. First-aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device. Call a physician or poison control center immediately.

**Skin contact**Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing before reuse.

Wash clothing separately before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO

NOT delay irrigation or attempt to remove the lens. Continue rinsing. Call a physician or poison

control center immediately.

**Ingestion** Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if

the person is conscious). Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device.

Most important

symptoms/effects, acute and

delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special

medical attention and specia treatment needed

**General information** 

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water Fog. Alcohol foam. Foam. Dry chemical powder. Carbon dioxide (CO2).

Water. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for

firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Fire fighting equipment/instructions

In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out. Water runoff can cause

environmental damage.

Specific methods
General fire hazards

In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

No unusual fire or explosion hazards noted.

Material name: RI80 Part B SDS US

4858 Version #: 05 Revision date: 01-11-2018 Issue date: 05-18-2015

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

# Methods and materials for containment and cleaning up

Extinguish all flames in the vicinity. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

## **Environmental precautions**

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not get this material in contact with eyes. When using do not eat or drink. Do not get this material in contact with skin. Do not taste or swallow. Avoid prolonged exposure. Use personal protective equipment as required. Do not get this material on clothing. Observe good industrial hygiene practices. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities Store locked up. Store away from incompatible materials (see Section 10 of the SDS). Keep away from food, drink and animal feedingstuffs.

# 8. Exposure controls/personal protection

#### Occupational exposure limits

US. ACGIH Threshold Limit	Values

Components	Туре	Value	
[3-(aminoethyl)phenyl]meth anamine (CAS 1477-55-0)	Ceiling	0.1 mg/m3	
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	
[3-(aminoethyl)phenyl]meth anamine (CAS 1477-55-0)	Ceiling	0.1 mg/m3	
<b>US. AIHA Workplace Envir</b>	onmental Exposure Level (WEEL)	Guides	
Components	Туре	Value	
BENZYL ALCOHOL (CAS 100-51-6)	TWA	44.2 mg/m3	
•		10 ppm	
logical limit values	No biological exposure limits noted f	or the ingredient(s).	

# **Exposure guidelines**

**US - California OELs: Skin designation** 

[3-(aminoethyl)phenyl]methanamine (CAS 1477-55-0) Can be absorbed through the skin.

**US - Tennesse OELs: Skin designation** 

[3-(aminoethyl)phenyl]methanamine (CAS 1477-55-0) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

[3-(aminoethyl)phenyl]methanamine (CAS 1477-55-0) Can be absorbed through the skin.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation** 

[3-(aminoethyl)phenyl]methanamine (CAS 1477-55-0) Can be absorbed through the skin.

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# Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas. General ventilation normally adequate. Provide adequate general and local exhaust ventilation.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** 

Do not get in eyes. Avoid contact with eyes. Wear eye/face protection. Chemical goggles are recommended. Face-shield. Wear chemical protective equipment that is specifically recommended by the manufacturer. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin protection

**Hand protection** Wear protective gloves.

**Other** Do not get this material in contact with skin. Avoid contact with the skin. Do not get this material

on clothing. Wear appropriate chemical resistant clothing. Structural firefighters protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations. Chemical resistant gloves. Wear protective gloves. Wear chemical protective equipment that is specifically

recommended by the manufacturer. It may provide little or no thermal protection.

**Respiratory protection** Do not breathe dust/fume/gas/mist/vapors/spray. When workers are facing concentrations above

the exposure limit they must use appropriate certified respirators.

**Thermal hazards** Not available.

General hygiene considerations

When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. Avoid contact with eyes. Avoid contact with skin. Wash hands after handling. Wash hands before breaks and immediately after handling the product. Wash hands after handling and before eating. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Liquid.
Color Not available.
Odor Not available.
Odor threshold Not available.
ph Not available.

Initial boiling point and

Melting point/freezing point

boiling range

212 °F (100 °C) estimated

Flash point > 200.0 °F (> 93.3 °C)

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Not available.

Flammability limit -

upper (%)

Not available.

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

(%)

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

**Solubility (water)** Not available.

**Partition coefficient** (n-octanol/water)

Not available.

**Auto-ignition temperature** 

816.8 °F (436 °C) estimated

**Decomposition temperature** Not available. **Viscosity** 

Not available.

Other information

**Density** 8.53 lb/gal estimated

Percent volatile < 10 %

Specific gravity 1.02 estimated

## 10. Stability and reactivity

Reactivity Not available.

**Chemical stability** Stable under normal temperature conditions.

**Possibility of hazardous** 

reactions

Not available.

**Conditions to avoid** 

Avoid temperatures exceeding the flash point.

**Incompatible materials** 

Peroxides. Phenols.

**Hazardous decomposition** products

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May be harmful if inhaled.

Skin contact Causes severe skin burns and eye damage. May cause an allergic skin reaction

Eye contact Causes serious eye damage.

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Irritation of eyes and mucous membranes.

# Information on toxicological effects

**Acute toxicity** 

Components	Species	Test Results
BENZYL ALCOHOL (CAS 10	0-51-6)	
Acuto		

Acute **Dermal** 

LD50 Rabbit 2000 mg/kg

Oral

LD50 Rat 1230 - 3100 mg/kg

Skin corrosion/irritation Irritating and may cause redness and pain.

Serious eye damage/eye

Causes severe eye burns.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Causes skin burns. Corrosive to skin and eyes.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. This product

contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the

normal routes of exposure are unavailable.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects

Specific target organ toxicity

Not classified.

- single exposure

Specific target organ toxicity

- repeated exposure

Not classified.

**Aspiration hazard** Not available.

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

**Ecotoxicity** Accumulation in aquatic organisms is expected. Contains a substance which causes risk of

hazardous effects to the environment. Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the environment. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. The product contains a substance which may cause

long-term adverse effects in the environment.

Product		Species	Test Results
RI80 Part B			
Aquatic			
Crustacea	EC50	Daphnia	57.2773 mg/l, 48 hours estimated
Fish	LC50	Fish	416.2358 mg/l, 96 hours estimated
Components		Species	Test Results
3-AMINOMETHYL-3,5,	5-TRIMETHYLCYCL	OHEXYLAMINE (CAS 2855-13-2)	
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	14.6 - 21.5 mg/l, 48 hours
BENZYL ALCOHOL (CA	S 100-51-6)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	10 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** Not available.

Partition coefficient n-octanol / water (log Kow)

BENZYL ALCOHOL 1.1

Mobility in soilNot available.Other adverse effectsNot available.

#### 13. Disposal considerations

**Disposal instructions**Not regulated. Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Do not discharge into drains, water courses or onto the ground. Dispose of contents/container in accordance with local/regional/national/international regulations. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste

management professional with manifests for industrial waste.

**Hazardous waste code** Not applicable.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions). Avoid discharge into water courses or onto the ground.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

#### DOT

UN number UN2735

Material name: RI80 Part B SDS US

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**UN** proper shipping name Amines, liquid, corrosive, n.o.s, or Polyamines, liquid, corrosive, n.o.s.

Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Packing group III

**Special precautions for** Not available.

user

**Special provisions** IB3, T7, TP1, TP28

Packaging exceptions154Packaging non bulk203Packaging bulk241

**IATA** 

**UN number** UN2735

**UN proper shipping name** Amines, liquid, corrosive, n.o.s.

Transport hazard class(es)
Class 8
Subsidiary risk Packing group III
Environmental hazards No.
ERG Code 8L

**Special precautions for** Not available.

user

Other information

**Passenger and cargo** Allowed with restrictions.

aircraft

**Cargo aircraft only** Allowed with restrictions.

**IMDG** 

**UN number** UN2735

**UN** proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

Transport hazard class(es)
Class 8
Subsidiary risk -

Packing group III

**Environmental hazards** 

Marine pollutant No.

EmS F-A, S-B

Special precautions for Not available.

ıser

**Transport in bulk according to** Not available.

Annex II of MARPOL 73/78

and the IBC Code

DOT



#### IATA; IMDG



# 15. Regulatory information

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard

29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312** No

**Hazardous chemical** 

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA) Section 112(r) (40 CFR Hazardous substance

68.130)

Safe Drinking Water Act

(SDWA)

Not regulated.

**US state regulations**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is

not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No

Country(s) or regionInventory nameOn inventory (yes/no)\*JapanInventory of Existing and New Chemical Substances (ENCS)NoKoreaExisting Chemicals List (ECL)YesNew ZealandNew Zealand InventoryYesPhilippinesPhilippine Inventory of Chemicals and Chemical SubstancesYes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

 Issue date
 05-18-2015

 Revision date
 01-11-2018

Version # 05

**Further information** HMIS® is a registered trade and service mark of the NPCA.

NFPA ratings Health: 3 Flammability: 1

Instability: 0

**References** ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

Korea. Accidental Release Prevention Substances (Presidential Decree of Toxic Chemical Control

Law, Executive Order No. 19203)

Korea. Dangerous Substances Threshold Quantity (Presidential Decree of Dangerous Substances

Safety Management Act No. 18406, Schedule 1)

Korea. Harmful Substances Prohibited from Manufacturing (Presidential Decree on the Industrial

Safety and Health Act (No. 13053), Article 29)

Korea. Harmful Substances Requiring Permission for Manufacture or Use (Presidential Decree on

the Industrial Safety and Health Act (No. 13053), Article 30)

Korea. Non-Toxic Chemicals List (National Institute of Environment Research (NIER) Public Notice

No. 1997-10, as amended)

Korea. Observational Chemicals (Ministerial Decree of TCCL Article 6)

Korea. OELs. Regulation for Permitted Concentration of Hazardous Substances (Ministry of Labor

(MOL) Public Notice No. 1986-45, as amended)

Korea. Prohibited Chemical Substances (TCCL Article 11)

Korea. Regulated volatile organic compounds (VOCs) (MOE Notice No. 2001-36, March 8, 2001, as

amended)

Korea. Restricted Chemical Substances (TCCL Article 11)

Korea. Toxic Chemical Control Law (TCCL), Existing Chemicals Inventory (KECI)

Korea. Toxic Chemical Control Law (TCCL), pre-1997 List

Korea. Toxic Chemicals (TCCL Article 10)

Korea, Toxic Release Inventory (TRI) Chemicals (TCCL Article 14)

Taiwan. Dangerous Materials (Rules on Hazard Communication of Dangerous Materials and Toxic

Materials)

Taiwan. Industrial Precursor Chemicals (Categories and Regulations Governing Inspection and

Declaration of Industrial Precursor Chemicals, MOEA Decree No. 87, as amended)

Taiwan. OELs. (Standards on Workplace Atmosphere of Dangerous and Hazardous Materials) Taiwan. Toxic Chemical Substances (TCS) (List of Toxic Chemical Substances announced by the

**Environmental Protection Administration)** 

Taiwan. Toxic Materials (Rules on Hazard Communication of Dangerous Materials and Toxic

Materials)

HSDB® - Hazardous Substances Data Bank

JIS Z 7250: 2005 Safety data sheet for chemical products-Part 1:Content and order of sections

JCIA GHS Guideline, October 2008

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits

GOST 30333-2007 - Chemical production safety passport. General requirements

**Disclaimer** This safety data sheet was prepared in accordance with the Safety Data Sheet for Chemica

Products (JIS Z 7250:2005). Additional information is given in the Material Safety Data Sheet. The information in the sheet was written based on the best knowledge and experience currently

available

**Revision information** Physical & Chemical Properties: Multiple Properties

Material name: RI80 Part B SDS US

4858 Version #: 05 Revision date: 01-11-2018 Issue date: 05-18-2015