



Safety Data Sheet

SDS No. 1219

1 – IDENTIFICATION

- 1.1 Product identifier:** BR Reactive Polyurethane Sealer Matte / Gloss Part A
1.2 General Use: Concrete Sealer
1.3 Manufacturer: Buddy Rhodes Concrete Products
5600 Lower Macungie Rd., Macungie, PA 18062
Domestic: 1 (877) 706-5303 International: (610) 252-5800
1.4 Emergency Contact: Chem-Tel
Domestic: 800-255-3924 International: 813-248-0585

2 – HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture according to United States Occupational Safety and Health Administration (OSHA) 2012 Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) and Regulation (EC) No 1272/2008 and subsequent amendments.

2.2 GHS Label elements, including precautionary statements

Hazard Pictogram(s): none

Signal word: none

General

- Precautions:
- | | |
|------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |

Hazards not otherwise classified (HNOC) or not covered by GHS – none

3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

No ingredients are hazardous according to 2012 OSHA Regulation 29 CFR 1910.1200 criteria.

4 – FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water.

Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 After first aid, get appropriate in-plant, paramedic, or community medical support.



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5 – FIRE-FIGHTING MEASURES

- 5.1 Extinguishing Media:** Water Fog, Dry Chemical, and Carbon Dioxide Foam
- 5.2 Special hazards arising from the substance or mixture:** None known.
- 5.3 Advice for firefighters:** Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off “fuel” to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

6 – ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures:** Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.
- 6.2 Environmental precautions:** No special environmental precautions required.
- 6.3 Methods and material for containment and cleaning up:** absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution
- 6.4 Reference to other sections:** See Section 3 for Hazardous Ingredients; Section 8 for Exposure Controls; and Section 13 for Disposal.

7 – HANDLING and STORAGE

- 7.1 Precautions for safe handling:** Use good general housekeeping procedures. Wash hands after use.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.
- 7.3 Specific end use(s):** These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters:** none known
- 8.2 Exposure controls:**
- Respiratory Protection:** Should occupational exposure factors warrant a respirator, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate cartridges.
- Hand Protection:** Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.
- Eye Protection:** Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.
- Other Protective Clothing/Equipment:** Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.
- Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.



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9 – PHYSICAL / CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance: white liquid	Vapor Pressure: None (solid)
Odor/Threshold: slight	Vapor Density (Air=1): no data
pH: not applicable (non-aqueous)	Specific Gravity (H₂O=1, at 4 °C): 1.041 g/ml
Melting Point/Freezing Point: Not available	Water Solubility: Soluble
Low/High Boiling Point: 100°C	Partition coefficient: Not available
Flash Point: N.A.	Auto-ignition temperature: Not available
Evaporation Rate: Not available	Decomposition temperature: Not available
Flammability: Not available	Viscosity: no data (powder)
UEL/LEL: Not available	% Volatile: nil

10 – STABILITY and REACTIVITY

- 10.1 Reactivity:** No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.
- 10.2 Chemical stability:** These products are stable at room temperature in closed containers under normal storage and handling conditions.
- 10.3 Possibility of hazardous reactions:** Hazardous polymerization cannot occur.
- 10.4 Conditions to avoid:** extreme heat
- 10.5 Incompatible materials:** strong acids, halogens, chlorine trifluoride, bromine pentafluoride, phosphorus pentafluoride
- 10.6 Hazardous decomposition products:** Thermal oxidative decomposition can produce magnesium oxide fumes, carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Skin Corrosion/Irritation: skin irritant	Serious Eye Damage/Irritation: eye irritant
Respiratory/Skin Sensitization: respiratory irritant	Germ Cell Mutagenicity: no data
Carcinogenicity: No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, NTP, or OSHA.	
Reproductive Toxicity: no data	
Specific Target Organ Toxicity – Single Exposure: no data	
Specific Target Organ Toxicity – Repeated Exposure: no data	
Aspiration Hazard: no data	
Acute Toxicity: yes	
Chronic Exposure: no data	
Potential Health Effects – Miscellaneous: no data	



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12 – ECOLOGICAL INFORMATION

- 12.1 **Toxicity:** no data
- 12.2 **Persistence and Degradability:** no data
- 12.3 **Bioaccumulative Potential:** no data
- 12.4 **Mobility in Soil:** no data
- 12.5 **Results of PBT and vPvB assessment:** no data
- 12.6 **Other Adverse Effects:** no data

13 – DISPOSAL CONSIDERATIONS

- 13.1 **Waste treatment methods:** Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.
- Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

14 – TRANSPORTATION INFORMATION

Not regulated by DOT, IATA or IMDG

- 14.1 **UN number:** none
- 14.2 **UN proper shipping name:** none
- 14.3 **Transport hazard class(es):** not applicable
- 14.4 **Packing group:** not applicable
- 14.5 **Environmental hazards:** none known
- 14.6 **Special precautions for user:** none known
- 14.7 **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** not applicable

15 – REGULATORY INFORMATION

15.1 **Safety health and environmental regulations/legislation specific for the substance or mixture:**
In the United States (EPA Regulations):

TSCA Inventory Status (40 CFR710): All components of this formulation are listed in the TSCA Inventory.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (*de minimis*) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: none

California Proposition 65: This product does not intentionally contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

15.2 **Chemical safety assessment:** No chemical safety assessment has been carried out for this substance/mixture by the supplier.



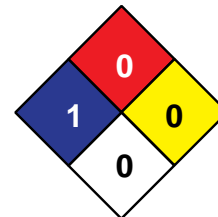
GHS Compliant

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16 – OTHER INFORMATION

HMIS	
H	1
F	0
R	0



NFPA

SDS Version: 1

Date Prepared: March 1, 2017

Glossary: ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

Disclaimer: The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Buddy Rhodes Concrete Products, it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH).

Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.



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1 – IDENTIFICATION

- 1.1 **Product identifier:** BR Reactive Polyurethane Sealer Matte / Gloss Part B
- 1.2 **General Use:** Concrete Sealer
- 1.3 **Manufacturer:** Buddy Rhodes Concrete Products
5600 Lower Macungie Rd., Macungie, PA 18062
Domestic: 1 (877) 706-5303 International: (610) 252-5800
- 1.4 **Emergency Contact:** Chem-Tel
Domestic: 800-255-3924 International: 813-248-0585

2 – HAZARD(S) IDENTIFICATION

- 2.1 **Classification of the substance or mixture:**
Skin Sensitization – Category 1 (H317)
Acute toxicity, inhalation – Category 4 (H332)
Specific target organ toxicity, single exposure – Category 3 (respiratory, H335)

- 2.2 **GHS Label elements, including precautionary statements**



Hazard Pictogram(s):

Signal word: Warning

Health Hazards:

- H317 May cause an allergic skin reaction
- H332 Harmful if inhaled
- H335 May cause respiratory irritation

General Precautions:

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

Prevention Precautions:

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.

- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response Precautions:

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

- P312 Call a POISON CENTER/doctor/physician if you feel unwell.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage Precautions:

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.



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Disposal Precautions:
P501

Dispose of contents/container according to local, state and federal laws.

Hazards not otherwise classified (HNOC) or not covered by GHS – none

3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

The following ingredients are hazardous according to 2012 OSHA Regulation 29 CFR 1910.1200 criteria.

CAS No.	Component	Concentration
28182-81-2	Hexane, 1,6-diisocyanato-, homopolymer	50-100%
822-06-0	Hexamethylene-di-isocyanate	<1.0%

4 – FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water.

Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed: None known.

4.3 After first aid, get appropriate in-plant, paramedic, or community medical support.

5 – FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: Water Fog, Dry Chemical, and Carbon Dioxide Foam

5.2 Special hazards arising from the substance or mixture: None known.

5.3 Advice for firefighters: Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

6.2 Environmental precautions: No special environmental precautions required.

6.3 Methods and material for containment and cleaning up: absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution

6.4 Reference to other sections: See Section 3 for Hazardous Ingredients; Section 8 for Exposure Controls; and Section 13 for Disposal.



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7 – HANDLING and STORAGE

- 7.1 Precautions for safe handling:** Use good general housekeeping procedures. Wash hands after use.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.
- 7.3 Specific end use(s):** These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Component	CAS No.	Method	Value
Hexamethylene-di-isocyanate	822-06-0	REL	Long-term value: 0.035 mg/m ³ , 0.005 ppm Ceiling limit: 0,14* mg/m ³ , 0,02* ppm *10-min
		TLV	Long-term value: 0,034 mg/m ³ , 0,005 ppm

8.2 Exposure controls:

Respiratory Protection: Should occupational exposure factors warrant a respirator, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate cartridges.

Hand Protection: Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

Eye Protection: Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Other Protective Clothing/Equipment: Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

9 – PHYSICAL / CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance: liquid

Odor/Threshold: slight

pH: not applicable (non-aqueous)

Melting Point/Freezing Point: N.A.

Low/High Boiling Point: N.A.

Flash Point: 365 °F / 185°C

Evaporation Rate: Not available

Flammability: Not applicable

UEL/LEL: Not available

Vapor Pressure: <0.001 hPa

Vapor Density (Air=1): no data

Specific Gravity (H₂O=1, at 4 °C): 1.15 g/cm³

Water Solubility: Not miscible or difficult to mix

Partition coefficient: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: no data (powder)

% Volatile: nil



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10 – STABILITY and REACTIVITY

- 10.1 Reactivity:** No hazardous reactions if stored and handled as prescribed/indicated. No corrosive effect on metal. Not fire propagating.
- 10.2 Chemical stability:** These products are stable at room temperature in closed containers under normal storage and handling conditions.
- 10.3 Possibility of hazardous reactions:** Exothermic polymerization can occur.
- 10.4 Conditions to avoid:** extreme heat
- 10.5 Incompatible materials:** strong acids, halogens, chlorine trifluoride, bromine pentafluoride, phosphorus pentafluoride
- 10.6 Hazardous decomposition products:** Thermal oxidative decomposition can produce magnesium oxide fumes, carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Skin Corrosion/Irritation: Slight irritant effect on skin and mucous membranes.

Serious Eye Damage/Irritation: Slight irritant effect on eyes.

Respiratory/Skin Sensitization: Sensitizing effect through inhalation is possible by prolonged exposure. Sensitization possible through skin contact.

Germ Cell Mutagenicity: no data

Carcinogenicity: No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity: no data

Specific Target Organ Toxicity – Single Exposure: no data

Specific Target Organ Toxicity – Repeated Exposure: no data

Aspiration Hazard: no data

Acute Toxicity:

Component	CAS No.	Method
Hexane 1,6-diisocyanato-, homopolymer	28182-81-2	Oral LD50 >5000 mg/kg (rat) Estimated value
		Dermal LD50 >5000 mg/kg (rabbit)
Hexamethylene-di-isocyanate	822-06-0	Oral LD50 738 mg/kg (rat)
		Dermal LD50 593 mg/kg (rabbit)

Chronic Exposure: no data

Potential Health Effects – Miscellaneous: no data

12 – ECOLOGICAL INFORMATION

- 12.1 Toxicity:** no data
- 12.2 Persistence and Degradability:** no data
- 12.3 Bioaccumulative Potential:** no data
- 12.4 Mobility in Soil:** no data
- 12.5 Results of PBT and vPvB assessment:** no data
- 12.6 Other Adverse Effects:** no data



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13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

14 – TRANSPORTATION INFORMATION

Not regulated by DOT, IATA or IMDG

14.1 UN number: none

14.2 UN proper shipping name: none

14.3 Transport hazard class(es): not applicable

14.4 Packing group: not applicable

14.5 Environmental hazards: none known

14.6 Special precautions for user: none known

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable

15 – REGULATORY INFORMATION

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

REACH: Regulation (EC) No 1907/2006 of The European Parliament and of The Council of December 2006 (including amendments and corrigenda as of 17 February 2016): This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

In the United States (EPA Regulations):

TSCA Inventory Status (40 CFR710): All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (*de minimis*) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Immediate (Acute)

California Proposition 65: This product does not intentionally contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

15.2 Chemical safety assessment: No chemical safety assessment has been carried out for this substance/mixture by the supplier.



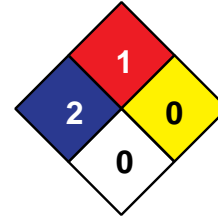
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16 – OTHER INFORMATION

HMIS	
H	2
F	1
R	0



NFPA

SDS Version: 1

Date Prepared: February 28, 2017

Glossary: ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

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This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008.

Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1272/2008 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.



Safety Data Sheet

SDS No. 1233**1 – IDENTIFICATION**

- 1.1 Product identifier:** BR Reactive Polyurethane Sealer Part C
1.2 General Use: Concrete Sealer
1.3 Manufacturer: Buddy Rhodes Concrete Products
5600 Lower Macungie Rd., Macungie, PA 18062
Domestic: 1 (877) 706-5303 International: (610) 252-5800
1.4 Emergency Contact: Chem-Tel
Domestic: 800-255-3924 International: 813-248-0585

2 – HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
Acute toxicity, oral – Category 5 (H303)
Acute toxicity, dermal – Category 4 (H312)
Eye irritation – Category 2A (H319)
Acute toxicity, inhalation – Category 5 (H333)
- 2.2 GHS Label elements, including precautionary statements**



Hazard Pictogram(s):
Signal word: Warning

Health Hazards:

H303 May be harmful if swallowed
H312 Harmful in contact with skin
H319 Causes serious eye irritation
H333 May be harmful if inhaled

General Precautions:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

Prevention Precautions:

P264 Wash with soap and water thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response Precautions:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P312 IF INHALED: Call a POISON CENTER/doctor/physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor/physician if you feel unwell.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage Precautions:

P401 Store in an appropriate container or containment structure.
P403 Store in a well-ventilated place.

Disposal Precautions:

P501 Dispose of contents/container according to local, state and federal laws.



GHS Compliant

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Hazards not otherwise classified (HNOC) or not covered by GHS – none

3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

The following ingredients are hazardous according to 2012 OSHA Regulation 29 CFR 1910.1200 criteria.

CAS No.	Component	Concentration
7803-62-5	Silane	0-5%
7631-86-9	Amorphous silicate in water	0-5%
9038-95-3	Oxirane, Me, polymer with oxirane monobutylether (polyalkylene glycol)	<1%
7732-18-5	Water	balance

4 – FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water.

Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed: None known.

4.3 After first aid, get appropriate in-plant, paramedic, or community medical support.

5 – FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: Water Fog, Dry Chemical, and Carbon Dioxide Foam

5.2 Special hazards arising from the substance or mixture: None known.

5.3 Advice for firefighters: Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

6.2 Environmental precautions: No special environmental precautions required.

6.3 Methods and material for containment and cleaning up: absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution

6.4 Reference to other sections: See Section 3 for Hazardous Ingredients; Section 8 for Exposure Controls; and Section 13 for Disposal.



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7 – HANDLING and STORAGE

- 7.1 Precautions for safe handling:** Use good general housekeeping procedures. Wash hands after use.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.
- 7.3 Specific end use(s):** These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters: none

8.2 Exposure controls:

Respiratory Protection: Should occupational exposure factors warrant a respirator, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate cartridges.

Hand Protection: Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

Eye Protection: Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Other Protective Clothing/Equipment: Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

9 – PHYSICAL / CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance: cloudy grey-light yellow liquid

Odor/Threshold: ammonia

pH: 11.0

Melting Point/Freezing Point: N.A.

Low/High Boiling Point: >212°F

Flash Point: N.A.

Evaporation Rate: Not available

Flammability: Not applicable

UEL/LEL: Not available

Vapor Pressure: Not available

Vapor Density (Air=1): Not available

Specific Gravity (H₂O=1, at 4 °C): Not available

Water Solubility: >95% in water

Partition coefficient: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: no data

% Volatile: nil

10 – STABILITY and REACTIVITY

10.1 Reactivity: No hazardous reactions if stored and handled as prescribed/indicated. No corrosive effect on metal. Not fire propagating.

10.2 Chemical stability: These products are stable at room temperature in closed containers under normal storage and handling conditions.



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- 10.3 Possibility of hazardous reactions:** Exothermic polymerization can occur.
- 10.4 Conditions to avoid:** extreme heat
- 10.5 Incompatible materials:** strong acids, halogens, chlorine trifluoride, bromine pentafluoride, phosphorus pentafluoride
- 10.6 Hazardous decomposition products:** Thermal oxidative decomposition can produce magnesium oxide fumes, carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Skin Corrosion/Irritation: Slight irritant effect on skin.

Serious Eye Damage/Irritation: Slight irritant effect on eyes.

Respiratory/Skin Sensitization: no data

Germ Cell Mutagenicity: no data

Carcinogenicity: No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity: no data

Specific Target Organ Toxicity – Single Exposure: no data

Specific Target Organ Toxicity – Repeated Exposure: no data

Aspiration Hazard: If ingested vomiting may pose aspiration hazard.

Acute Toxicity: 9038-95-3 Oxirane, Me, polymer with oxirane monobutylether (polyalkylene glycol)

LD50 oral (rat): 5370 mg/kg

Acute Inhalation Toxicity: estimate, 12.36 mg/l; exposure time = 4h; test atmosphere - vapour

Chronic Exposure: no data

Potential Health Effects – Miscellaneous: no data

12 – ECOLOGICAL INFORMATION

12.1 Toxicity: no data

12.2 Persistence and Degradability: no data

12.3 Bioaccumulative Potential: no data

12.4 Mobility in Soil: no data

12.5 Results of PBT and vPvB assessment: no data

12.6 Other Adverse Effects: no data

13 –DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.



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14 – TRANSPORTATION INFORMATION

Not regulated by DOT, IATA or IMDG

14.1 UN number: none

14.2 UN proper shipping name: none

14.3 Transport hazard class(es): not applicable

14.4 Packing group: not applicable

14.5 Environmental hazards: none known

14.6 Special precautions for user: none known

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable

15 – REGULATORY INFORMATION

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

REACH: Regulation (EC) No 1907/2006 of The European Parliament and of The Council of December 2006 (including amendments and corrigenda as of 17 February 2016): This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

In the United States (EPA Regulations):

TSCA Inventory Status (40 CFR710): All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (*de minimis*) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Immediate (Acute)

State Right-to-Know:

<u>Component</u>	<u>State(s)</u>	<u>Conc.</u>
Oxirane, Me, polymer with oxirane monobutylether (polyalkylene glycol)	MA, PA, NJ	<1.0%

California Proposition 65: This product does not intentionally contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

15.2 Chemical safety assessment: No chemical safety assessment has been carried out for this substance/mixture by the supplier.



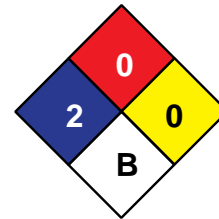
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16 – OTHER INFORMATION

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Glossary: ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

Disclaimer: The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Buddy Rhodes Concrete Products, it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008.

Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1272/2008 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.