



Crack Seal and Port Adhesive

MATERIAL SAFETY DATA SHEET

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SECTION I - PRODUCT IDENTIFICATION

Product Identifier: RadonSeal Crack Seal and Port Adhesive, Part A
Synonym: Thermosetting Resin
Chemical Family: Modified Epoxy Resin
Manufacturer: Novion, Inc.
Address: 18 L'Hermitage Drive
Shelton, CT 06484
Product Use: Repairing cracks in concrete
Date: January 2, 2004
Emergency Telephone Number: 1-800-844-2713

SECTION II – HAZARDOUS INGREDIENTS AND OTHER COMPONENTS

Ingredient	% by weight	Exposure Limits	CAS #
Bisphenol a/diglycidyl Ether Resin	50 – 90	N.E.	25068-38-6
Inert Powder	10 – 50	N.E.	14807-96-6
Fumed silica	0 – 5		067762-90-7

SECTION III – PHYSICAL DATA

Boiling Point: >200°F
VP: >1 TORR @ 180°C
VD: >1 (air = 1)
Evaporation Rate: <1 (butyl acetate = 1)
Solubility In Water: Insoluble

Specific Gravity: 1.32 (water = 1)
% Volatile by Volume: nil

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F
Flammable Limits: Acrid smoke/fumes
Extinguishing Media: Carbon dioxide, dry chemicals, foam, water spray.
Explosive Limits: LEL – NE
Special fire fighting procedures: Use self-contained breathing apparatus.
Unusual fire and explosion hazards: Decomposition and combustion products may be toxic.

SECTION V – HEALTH HAZARD DATA

Primary Route(s) of Entry: Inhalation, skin contact
Toxicological Data: LD SOs provided are the lowest values for type of bisphenol A diglycidal ether resins used.
Oral LD0: (rabbit) > 4000 mg/kg
Skin Irritation: (rabbits) Moderate irritation
Eye Irritation: (rabbits) Mild irritation
Sensitization: Sensitizer
Effects of Overexposure: Irritation, sensitization, and dermatitis.
Medical Conditions Generally Aggravated by Exposure: Allergy, eczema, skin conditions
Carcinogenicity: None of the components of this material are listed as carcinogens by NTP, IARC, or OSHA.



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In order to comply with California Proposition 65, we feel obligated to advise that some of our products may conceivably contain trace contaminants of some of the listed chemicals. While not necessarily added to our products as ingredients, some listed chemicals may be present in the raw materials from suppliers and over which we have no control. Therefore, even though some of the listed substances may not be present, a significant risk as defined by the regulations in order to comply with California law, we feel obligated to make the following statement:

WARNING: Our products may contain trace amounts of some chemicals considered by the State of California to be carcinogens or reproductive toxicants.

Emergency and first aid procedures

Eyes: Flush with water for at least 15 minutes. If any ill effects develop, seek medical attention.

Skin: Wash with soap and water. Wash contaminated clothing before reuse.

Inhalation: Remove to fresh air and give oxygen if breathing is difficult.

Ingestion: Give large quantities of water and induce vomiting. Get medical attention.

SECTION VI – REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Elevated temperatures

Incompatibility Materials to Avoid: Strong oxidizers, strong acids or bases in bulk.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, aldehydes and other organics.

SECTION VII – SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Avoid all personal contact. Wipe with rag for small spills. For larger spills, use absorbent material. Collect waste in designated container. Flush contaminated areas with water.

Waste Disposal Method: Dispose in accordance with federal, state and local regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

Respiratory Protection: Avoid breathing vapors. Use adequate ventilation.

Ventilation: Good mechanical ventilation and local exhaust.

Eye Protection: Safety glasses.

Protective Gloves: Rubber or polyethylene.

Protective Equipment: Disposable containers and paper on work area. Use of barrier cream recommended. Use appropriate equipment to prevent eye or skin contact.

SECTION IX – SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Causes irritation. May cause allergic skin reaction. Avoid contact with eyes, skin or clothing. Store in cool, dry area in closed cartridges.

Other precautions: Avoid breathing vapors, use with good ventilation. Wash hands thoroughly with soap and water after every use.

Health	Flammability	Reactivity	Personal Protection
2	1	0	B

All statements, technical information and recommendations contained herein are based upon available scientific test or data which we believe to be reliable since we cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. The Manufacturer makes no warranties, express or implied, and assumes no responsibility in connection with any use of this information.



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SECTION I - PRODUCT IDENTIFICATION

Product Identifier: RadonSeal Injection Foam, Part B
Synonym: Epoxy Hardener
Chemical Family: Modified Polyamine
Manufacturer: Novion, Inc.
Address: 18 L'Hermitage Drive
Shelton, CT 06484
Product Use: Repairing cracks in concrete
Date: January 2, 2004
Emergency Telephone Number: 1-800-844-2713

SECTION II – HAZARDOUS INGREDIENTS AND OTHER COMPONENTS

Ingredient	% by weight	Exposure Limits	CAS #
Proprietary Polyamine/polyamide blend	< 70	N.E.	UK
Inert Powders	60 – 80	N.E.	14807-96-6
Fumed silica	0 – 5	N.E.	067762-90-7

SECTION III – PHYSICAL DATA

Appearance:	Paste	Color:	Black
Boiling Point:	Not Determined (>200°F)	Specific Gravity:	>1.91 +/- .02 (water = 1)
VP:	N.D.	% Volatile by Volume:	< 1%
VD:	N.D. (air = 1)	Odor:	Skunk-like, pinc -0. 1
Solubility in Water:	Appreciable		

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point: 185°F (PMCC)
Flammable Limits: Unknown
Extinguishing Media: Foam, dry chemicals, CO2
Special fire fighting procedures: Avoid breathing smoke. Use self-contained breathing apparatus.

SECTION V – HEALTH HAZARD DATA

Primary Route(s) of Entry: Inhalation, skin contact
Toxicological Data: Polyamine Resin
Oral LD0: (rat) LD50-<5 CC/KG
Skin Irritation: (rabbits) Mild irritant
Eye Irritation: (rabbits) Conjunctival irritant
Effects of Overexposure: **Acute:** Will cause burns to skin and eyes. High concentrations of vapor can cause irritation of respiratory tract, nausea, and vomiting. **Chronic:** Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic response.
Medical Conditions Generally Aggravated by Exposure: Allergy, eczema, skin conditions
Carcinogenicity: None of the components of this material are listed as carcinogens by NTP, IARC, or OSHA.



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WARNING: Our products may contain trace amounts of some chemicals considered by the State of California to be carcinogens or reproductive toxicants.

Emergency and first aid procedures

Eyes: Flush with water for at least 15 minutes. Seek medical attention.

Skin: Immediately deluge skin with plenty of water. Remove contaminated clothing and shoes.

Inhalation: Remove to fresh air and give oxygen if breathing is difficult. Seek medical attention

Ingestion: If swallowed and conscious, give plenty of water and induce vomiting. Seek medical attention.

SECTION VI – REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	Mixing with oxidizers or epoxy resins in quantities over 1#.
Incompatibility Materials to Avoid:	Strong oxidizing agents, acids.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, nitrogen oxides.
Hazardous Polymerization:	Will not occur.

SECTION VII – SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Soak up with inert material or scrape up. Collect waste in designated waste containers. Avoid personal contact. Flush contaminated area with water.

Waste Disposal Method: Dispose in accordance with federal, state and local regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

Respiratory Protection:	Avoid breathing vapors. Use adequate ventilation.
Ventilation:	Normal ventilation should be adequate. Local if vapors are vented.
Eye Protection:	Safety glasses.
Protective Gloves:	Rubber or impervious gloves recommended.

SECTION IX – SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store away from heat and open flame.

Other precautions: Avoid breathing vapors of heated material. Wash hands with soap and water after every use.

Adequate ventilation: Keep containers tightly closed when not in use.

Health	Flammability	Reactivity	Personal Protection
2	1	0	B

All statements, technical information and recommendations contained herein are based upon available scientific test or data which we believe to be reliable since we cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. The Manufacturer makes no warranties, express or implied, and assumes no responsibility in connection with any use of this information.