



SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: CrackWeld® Concrete Floor Crack Repair Kit - Part A

PRODUCT USES: CrackWeld Concrete Repair Kits make for quick and easy repairs of cracks and defects in concrete slabs, basement floors, slab-on-grade, industrial concrete floors, driveways, garage floors, concrete patios, and parking garages. Two-component rigid polymer cures strong within minutes after application.

CRACKWELD®

MANUFACTURER:

Novion, Inc.
494 Bridgeport Avenue
Suite 101 336
Shelton, CT 06484-4784
USA

EMERGENCY PHONE NUMBER:

PERS Professional Emergency Response Service
Company Code 10492
1-800-633-8253 (U.S. and Canada)
1-801-629-0667 (International)

SYMBOL



SECTION 2: HAZARD IDENTIFICATION

CODE	HAZARD STATEMENT	HAZARD CLASS	CATEGORY	SIGNAL WORD
H227	Combustible liquid.	Flammable liquids.	4	Danger
H332	Harmful if inhaled.	Acute toxicity, Inhalation .	4	
H317	May cause allergic skin reaction.	Sensitization, skin.	1	
H319	Causes serious eye irritation.	Serious eye damage/irritation.	2A	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Sensitization, respiratory.	1	
H340	May cause genetic defects.	Germ cell mutagenicity.	1A, 1B	
H350	May cause cancer	Carcinogenicity.	1A, 1B	
H335	May cause respiratory irritation.	Specific target organ toxicity, single exposure.	3	
H304	May be fatal if swallowed and enters airway	Aspiration hazard.	1	
H373	Causes damage to organs through prolonged or repeated exposure	Specific target organ toxicity, repeated exposure	2	
H411	Harmful to aquatic life with long lasting effects	Hazardous to the aquatic environment, long term hazard.	2	

PRECAUTIONARY STATEMENTS

PREVENTION	P102: Keep out of reach of children. P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P210: Keep away from heat, sparks, open flames and sources of ignition. No smoking. P233: Keep container tightly closed. P260: Do not breathe dust/fume/gas/mist/vapors/spray. P264: Wash hands and any exposed area thoroughly after handling. P271: Use only outdoors or in well ventilated areas. P272: Contaminated work clothing should not be allowed out of the workplace. P281: Use appropriate personal protective equipment as required. P285: In case of inadequate ventilation, wear appropriate organic vapor respiratory protection.	RESPONSE	P301+P310: If swallowed, immediately call a poison center or doctor. P302+P352: If on skin, wash with plenty of soap and water. P303+P361+P353: If on skin (or hair), take off immediately all contaminated clothing. Rinse skin with water (or shower). P302+P340: If inhaled: remove person to fresh air and keep comfortable for breathing. P305+P351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P310: If exposed or concerned: get medical attention/advice. P314: Get medical advice/attention if you feel unwell. P331: Do NOT induce vomiting. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P342+P311: If experiencing respiratory symptoms: Call a Poison Center/doctor. P363: Wash contaminated clothing before reuse. P370+P378: In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant foam to extinguish.
STORAGE	P403+P233: Store in a well-ventilated place. Keep container tightly closed. P403+P235: Store in a well-ventilated place. Keep cool. P405: Store locked up.		
DISPOSAL	P501: Dispose of contents/container in accordance with local, federal regulation.		

SECTION 3: COMPOSITION/INGREDIENT INFORMATION

Hazardous Components	% By Weights	OSHA PEL	ACGH TLV
Trimethylbenzene CAS# 95-63-6	10.5%	25	25
MDI Mixed Isomers CAS# 26447-40-5	6.71	NE	NE

SECTION 4: FIRST AID MEASURES

- EYES:** Symptoms: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, redness and swelling. Response: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- SKIN:** Symptoms: Causes skin irritation, redness, drying, and cracking. May cause allergic skin irritation. Response: In case of skin contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- INGESTION:** Symptoms: May cause stomach distress, nausea or vomiting. Response: Do not induce vomiting. Immediately administer 1-2 glasses of water and contact a physician, hospital emergency room, or poison control center for further advice. Keep person warm, quiet and seek immediate medical attention. Aspiration of material into lungs can cause severe lung damage. VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.
- INHALATION:** Symptoms: May cause respiratory irritation. Response: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable Extinguishing Media: Powder, water spray, foam, carbon dioxide.
Unsuitable Extinguishing Media: Direct water spray.

SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Products of Combustion: May include, and are not limited to: oxides of carbon.

SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for Containment: Dike area to prevent spreading. Contain spill, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning-Up: Scoop up material and place in a disposal container.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

HANDLING: Avoid contact with skin, eyes. Do not swallow. Avoid breathing dust/fume/mist/vapors/spray. Handle and open container with care. When using do not eat or drink. (See section 8)

GENERAL HYGIENE ADVICE: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

STORAGE: Keep out of the reach of children. Keep containers closed when not in use. Do not store in an area equipped with emergency water sprinklers. (See section 10)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

ENGINEERING CONTROLS: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: Safety glasses or goggles are recommended when using product.

HAND PROTECTION: Butyl gloves.

BODY PROTECTION: Wear suitable protective clothing.

RESPIRATORY PROTECTION: Wear suitable respiratory equipment.

GENERAL HEALTH AND SAFETY MEASURES: Handle according to established industrial hygiene and safety practices. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Provide eye washes in workshops where the product is constantly handled.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid	SOLIDS	12%-22%
COLOR	Various colors	SPECIFIC GRAVITY	1.11
ODOR	Hydrocarbon	EVAPORATION POINT	NA
BOILING POINT	308 °F	FREEZING POINT	NA
pH LEVEL	N/A	EVAPORATION RATE	<1
APPEARANCE	Viscous liquid	AUTO-IGNITION TEMP	NA
VOC (EPA METHOD 24)	275 g/l	FLASHPOINT	NA
VAPOR DENSITY	N/A	FLAMMABLE LIMITS	NA

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No dangerous reactions known under normal conditions of use.

STABILITY: Stable under normal conditions.

INCOMPATIBLES (materials to avoid): Exposure to strong oxidizing and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Exothermic reactions release phenolics, carbon monoxide, and water.

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Although no information is available for this specific product mixture, individual components may by themselves may have ecological affects. Trimethylbenzene is a marine pollutant under 49 CFR172.101.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of unused product and contaminated debris in accordance with local, state, federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

SHIPPING NAME: UN3082, Other regulated substances, liquid, n.o.s. (contains 4,4'-Diphenylmethane Diisocyanate(MDI)), 9, III

SECTION 16: OTHER INFORMATION

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. Novion, Inc. makes no warranties, express or implied, and assumes no responsibility in connection with any use of this information.

SECTION 11: TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Skin contact, skin absorption, eye contact, inhalation, and ingestion.

SENSITIZATION: As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanates at levels well below applicable exposure limits. These symptoms could be immediate or delayed several hours after exposure. This increased sensitivity can persist for weeks and in severe cases for several years.

CARCINOGENICITY: There is no data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

REPRODUCTIVE TOXICITY: There is no data available to indicate any components present at greater than 0.1% may present reproductive toxicity.

MUTAGENICITY: There is no data to indicate that any component present at greater than 0.1% will alter DNA.

SECTION 15: REGULATORY INFORMATION

U.S Toxic Substances Control Act (TSCA): All components of this product are listed on the U.S. Toxic Substances Control Act (TSCA) inventory or are otherwise compliant with TSCA regulations.

SARA Title III Section 313: This product does contain a chemical(s) subject to the reporting requirements of SARA Title III, Section 313 (40CFR 372).

CALIFORNIA PROPOSITION 65: None

REVISION DATE: 01/2020



SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: CrackWeld® Concrete Floor Crack Repair Kit - Part B

PRODUCT USES: CrackWeld Concrete Repair Kits make for quick and easy repairs of cracks and defects in concrete slabs, basement floors, slab-on-grade, industrial concrete floors, driveways, garage floors, concrete patios, and parking garages. Two-component rigid polymer cures strong within minutes after application.



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SYMBOL



SECTION 2: HAZARD IDENTIFICATION

CODE	HAZARD STATEMENT	HAZARD CLASS	CATEGORY	SIGNAL WORD
H226	Flammable liquid and vapo.	Flammable liquids.	3	DANGER
H332	Harmful if inhaled.	Acute toxicity, Inhalation .	4	
H315	Causes skin irritation	Skin corrosion/irritation.	2	
H318	Causes serious eye damage.	Serious eye damage/irritation.	1	
H340	May cause genetic defects.	Germ cell mutagenicity.	1A, 1B	
H350	May cause cancer	Carcinogenicity.	1A, 1B	
H335	May cause respiratory irritation.	Specific target organ toxicity, single exposure.	3	
H304	May be fatal if swallowed and enters airway	Aspiration hazard.	1	
H411	Harmful to aquatic life life with long lasting effects	Hazardous to the aquatic environment, long term hazard.	2	

PRECAUTIONARY STATEMENTS

PREVENTION	RESPONSE
<p>P102: Keep out of reach of children.</p> <p>P201: Obtain special instructions before use.</p> <p>P202: Do not handle until all safety precautions have been read and understood.</p> <p>P210: Keep away from heat, sparks, open flames and sources of ignition. No smoking.</p> <p>P233: Keep container tightly closed.</p> <p>P240: Ground and bond container and receiving equipment.</p> <p>P241: Use explosion-proof electrical/ventilation/lighting/handling equipment.</p> <p>P242: Use non-sparking tools.</p> <p>P243: Take action to prevent static discharge.</p> <p>P261: Avoid breathing dust/fume/gas/mist/vapor/spray.</p> <p>P264: Wash hands and any exposed area thoroughly after handling.</p> <p>P271: Use only outdoors or in well-ventilated area.</p> <p>P281: Use appropriate personal protective equipment as required.</p>	<p>P301+P310: If swallowed: Immediately call a Poison Center/Doctor.</p> <p>P302+P352: If on skin: Wash with plenty of water.</p> <p>P303+P361+P353: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).</p> <p>P304+P340: If inhaled: Remove person to fresh air, keep comfortable for breathing.</p> <p>P305+P351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313: If exposed or concerned: Get medical advice.</p> <p>P310: Immediately call a Poison Center/Doctor/Emergency Responder.</p> <p>P312: Call a Poison Center/Doctor if you feel unwell.</p> <p>P331: Do NOT induce vomiting.</p> <p>P332+P313: If skin irritation occurs: Get medical advice/attention</p> <p>P363: Wash contaminated clothing before reuse.</p> <p>P370+P378: In case of fire: Use carbon dioxide (CO2), powder, alcohol- resistant foam to extinguish.</p>
<p>STORAGE</p> <p>P403+P233: Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235: Store in a well-ventilated place. Keep cool.</p> <p>P405: Store locked up.</p>	
<p>DISPOSAL</p> <p>P501: Dispose of contents/container in accordance with local, federal regulation.</p>	

SECTION 3: COMPOSITION/INGREDIENT INFORMATION

Hazardous Components	% By Weights	OSHA PEL	ACGH TLV
Trimethylbenzene CAS# 95-63-6	21.1%	25 ppm	25 ppm
Aromatic Petroleum Distillates CAS# 64742-95-6	6.71	25 ppm	25 ppm
Polymethylalkylsiloxane solution	1-10	NA	NA
2,6-DYMETHYL-4-HEPTANONE CAS# 108-83-8	1-10	25 ppm	25 ppm
Cumene CAS# 98-82-8	1.44	50 ppm	50 ppm
Xylene, Mixed Isomers CAS# 1330-20-7	1.44	100 ppm	100 ppm

SECTION 4: FIRST AID MEASURES

- EYES:** Symptoms: May include discomfort or pain, irritation including burning, watering, and redness. Response: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- SKIN:** Symptoms: May causes minor skin irritation, redness, drying, and cracking. Response: In case of skin contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Call a physician if irritation develops and persists.
- INGESTION:** Symptoms: May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury. Response: Do not induce vomiting. Immediately administer 1-2 glasses of water and contact a physician, or poison control center for further advice. Keep person warm, quiet and seek immediate medical attention. Aspiration of material into lungs can cause severe lung damage. VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.
- INHALATION:** Symptoms: High vapor concentrations are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, asthma, drowsiness, unconsciousness, and other central nervous system effects, and possibly death.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, CO₂, or dry chemical is recommended. Water spray is recommended to cool or protect exposed materials or structures.

SPECIAL FIREFIGHTING PROCEDURES: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment. Isolate danger area, keep unauthorized personnel out. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters. Carbon dioxide can displace oxygen, exercise caution when using CO₂ in confined areas.

FIRE AND EXPLOSION HAZARDS: Vapors may be ignited by heat, sparks, flames, or other sources of ignition. Vapors are heavier than air and may travel considerable distances to a source of ignition where they may cause a flashback or explosion. If container is not properly cooled, it can rupture in the presence of excessive heat.

FLASH POINT: 102 °F TCC **FLAMMABLE LIMITS:** Lower Limit: 1 Upper Limit: 7

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES

Keep all sources of ignition and hot metal surfaces away from spill/release. Use explosion-proof non-sparking equipment. Stay upwind from area. Isolate danger and keep unauthorized personnel out. Stop source of release if possible with minimal risk. Wear appropriate protective equipment including respiratory protection. Prevent spill from entering sewers, storm drains, or any other unauthorized treatment drainage systems and natural waterways by diking ahead of the spill. Spilled material may be absorbed with an appropriate spill kit. Notify appropriate federal, state, and local agencies as required.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Static charge can accumulate by flow or agitation. Ignition can occur by static discharge. The use of explosion proof equipment is recommended and may be required. The use of respiratory protection is advised when concentrations exceed any established exposure limits and in confined spaces. Use good industrial and personal hygiene practice, wash thoroughly after handling, and do not wear contaminated clothing.

CONDITIONS FOR SAFE STORAGE: Keep containers tightly closed. Use and store material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post "No smoking or open flame" sign. Store only in approved containers. Keep away from incompatible materials (see section 10). Protect containers against physical damage.

OTHER PRECAUTIONS: "Empty" containers retain residue, liquid and vapor, and may be dangerous. Do not cut, weld, pressurize, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause severe personal injury or death. All containers should be disposed of in an environmentally safe manner in accordance with all government regulations.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE): Appropriate personal protective equipment should be used prevent contact with product. Contaminated clothing, and PPE, should not be removed from the work area, and should be properly cleaned before reuse, or disposed of. Efforts should be made to minimize contact and spills. Always wash hands before eating, drinking, or smoking.

RESPIRATORY PROTECTION: Engineering or administrative controls should be implemented to reduce exposure. A NIOSH/MSHA approved respirator with an organic vapor cartridge should be used under conditions where airborne concentrations are expected to exceed exposure limits (See Section 2). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

VENTILATION: Engineering or administrative controls should be implemented to reduce exposure. A NIOSH/MSHA approved respirator with an organic vapor cartridge should be used under conditions where airborne concentrations are expected to exceed exposure limits (See Section 2). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

General Health and Safety Measures: Handle according to established industrial hygiene and safety practices. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Provide eye washes in workshops where the product is constantly handled.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid	SOLIDS	NA
COLOR	Various colors	SPECIFIC GRAVITY	.94
ODOR	Hydrocarbon	EVAPORATION POINT	NA
BOILING POINT	270 °F – 337 °F	FREEZING POINT	NA
pH LEVEL	N/A	EVAPORATION RATE	<1
APPEARANCE	Viscous liquid	AUTO-IGNITION TEMP	NA
VOC (EPA METHOD 24)	538 g/l.	FLASHPOINT	NA
VAPOR DENSITY	N/A	FLAMMABLE LIMITS	NA

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No dangerous reactions known under normal conditions of use.

STABILITY: Stable under normal conditions.

INCOMPATIBLES (materials to avoid): Exposure to strong oxidizing and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may liberate toxic byproducts such as carbon dioxide, carbon monoxide, various oxides of carbon and nitrogen.

CONDITIONS TO AVOID: Ignition sources.

SECTION 11: TOXICOLOGICAL INFORMATION

SENSITIZATION: None known

CARCINOGENICITY: There is no data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

REPRODUCTIVE TOXICITY: There is no data available to indicate any components present at greater than 0.1% may present reproductive toxicity.

MUTAGENICITY: There is no data to indicate that any component present at greater than 0.1% will alter DNA.

TERATOGENICITY: There is no data available to indicate any components present at greater than 0.1% may cause birth defects.

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Although no information is available for this specific product mixture, individual components may by themselves may have ecological affects. Trimethylbenzene is a marine pollutant under 49 CFR172.101.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of unused product and contaminated debris in accordance with local, state, federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

SHIPPING NAME: Not regulated in containers 119 gallons [450 liters] or less, Combustible Liquid in containers greater >119 gallons for ground travel. (For containers greater than 119 gallons, vessel, international shipments, or air: UN1263, Paint, 3, III)

SECTION 15: REGULATORY INFORMATION

U.S Toxic Substances Control Act (TSCA): All components of this product are listed on the U.S. Toxic Substances Control Act (TSCA) inventory or are otherwise compliant with TSCA regulations.

SARA Title III Section 313: This product does contain a chemical(s) subject to the reporting requirements of SARA Title III, Section 313 (40CFR 372).

CALIFORNIA PROPOSITION 65: None

STATE LISTED COMPONENTS: Trmimethylebenzene: CA, MA, MN, NJ, PA
Cumene: CA, CT, FL, IL, LA, MA, ME, MN, NJ, PA, RI

SECTION 16: OTHER INFORMATION

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. Novion, Inc. makes no warranties, express or implied, and assumes no responsibility in connection with any use of this information.

REVISION DATE: 01/2020
