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Devcon® DFense Blok™ Quick Patch

ITW Polymers Adhesives, North America



MSDS Name Manufacturer Name Stock No.:

11320

Kit MSDS Revision Date 12/30/2012

Components			
	Devcon® DFense Blok™ Quick Patch Resin		
	Devcon® DFense Blok™ Quick Patch Hardener		
ITW Polymers Adhesives, North America Product Code: 11320			

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Devcon® DFense Blok™ Quick Patch Resin

MSDS Manufacturer 0096

Number:

Manufacturer Name: ITW Polymers Adhesives, North America

Address:

30 Endicatt Street Danvers, MA 01923

General Phone Number:

(978) 777-1100 (800) 424-9300

Emergency Phone Number: CHEMTREC:

For emergencies in the US, call CHEMTREC: 800-424-

MSDS Creation Date: 6/16/2011 12/30/2012 MSDS Revision Date:

HMIS iealth Hazard Fire Hazard Reactivity 1 Personal Protection

\* Chronic Health **Effects** 

### SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CASP	Ingredient Percent
Bauxite	1318-16-7	60 - 100 by weight
nert material	N/A	1 - 5 by weight
eaction Product of Epichlorohydrin & Bisphenol A	25085-99-8	10 - 30 by weight
henol, polymer with formaldehyde, glycidyl ether	28064-14-4	10 - 30 by weight

## SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: WARNING! Potential Sensitizer Imitant. Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Chronic Health Effects:

Dye: Can cause moderate irritation, burning sensation, tearing, redness, and

seelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

Skin: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident

on reexposure to this material.

Inhalation: Respiratory tract initant. High concentration may cause dizziness,

headache, and anesthetic effects. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.

Causes imitation, a burning sensation of the mouth, throat and

Ingestion: gastrointestinal tract and abdominal pain.

> Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and vomiting.

Target Organs: Eyes, Skin, Respiratory system, Digestive system,

Aggravation of Pre-Existing Individuals with pre-existing skin disorders, asthma, allergies or known Conditions: sensitization may be more susceptible to the effects of this product.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes.

Ensure adequate flushing of the eyes by separating the eyelids with

fingers. Get immediate medical attention. Immediately wash skin with plenty of soap and water for 15 to 20

minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention. Inhalation:

If swallowed, do NOT induce vomiting. Call a physician or poison control

Ingestion: center immediately. Never give anything by mouth to an unconscious

### SECTION 5: FIRE FIGHTING MEASURES

>200°F (93.3°C) Flash Point: Flash Point Method: Estimated Auto Ignition Temperature: Not determined. Lower Flammable/Explosive Not determined.

Skin Contact:

Upper Flammable/Explosive

Not determined.

Fire Fighting Instructions:

Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined

fire space without full protective gear. If possible, contain fire run-off

Extinguishing Media: Use carbon dioxide (CO2) or dry chemical when fighting fires involving

this material

Unsuitable Media: Water or foam may cause frothing.

As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear. Protective Equipment:

Sealed containers at elevated temperatures may rupture explosively and

Unusual Fire Hazards:

spread fire due to polymerization. Heating above 300 deg F in the presence of air may cause slowoxidative decomposition and above 500

deg F may cause polymerization.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately Spill Cleanup Measures:

observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue.

Avoid personal contact and breathing vapors or mists. Ventilate area. Use

proper personal protective equipment as listed in section 8.

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from

entering the spill area.

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Other Precautions: Pump or shovel to storage/salvage vessels.

## SECTION 7: HANDLING and STORAGE

Handling Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.

Storage: Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use.

Provide appropriate ventilation/respiratory protection against Special Handling Procedures:

decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured

product.

Hygiene Practices: Wash thoroughly after handling.

### SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls: Use appropriate engineering control such as process enclosures, local

exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance

of the personal protective equipment.

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29

CFR 1910.133, OSHA eye and face protection regulation, or the European

Skin Protection Description: Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where

airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate

Other Protective: Facilities storing or utilizing this material should be equipped with an

evewash and a deluge shower safety station

EXPOSURE GUIDELINES

Only established PEL and TLV values for the ingredients are listed. Notes:

### SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Solid. Odor: mild.

Boiling Point: Not determined. Melting Point: Not determined.

Specific Gravity: > 1

Solubility: Not determined. Vapor Density: >1 (air = 1) Vapor Pressure: Not determined. Percent Volatile:

Evaporation Rate: Not determined.

рН: Neutral. Molecular Formula: Mixture Molecular Weight: Mixture

Flash Point: >200°F (93.3°C) Flash Point Method: Estimated. Auto Ignition Temperature: Not determined.

VOC Content: 0 g/L Percent Solids by Weight 100

### SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Hazardous Polymerization: Not reported.

Conditions to Avoid:

Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Heating resin above 300 F in the presence of air

may cause slow oxidative decomposition.

Incompatible Materials: Strong Lewis or mineral acids, strong oxidizing agents, strong mineral

and organic bases (especially primary and secondary aliphatic amines).

# SECTION 11: TOXICOLOGICAL INFORMATION

#### Reaction Product of Epichlorohydrin & Bisphenol A:

Ingestion: Oral - Rat LD50: 11300 uL/kg [Details of toxic effects not reported other

than lethal dose value]

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product. Environmental Fate: No environmental information found for this product.

### SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the

classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

RCRA Number: Not determined.

### SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Non regulated. DOT UN Number: Not applicable. DOT Hazard Class: Not applicable. DOT Packing Group: Not applicable.

## SECTION 15: REGULATORY INFORMATION

### Reaction Product of Epichlorohydrin & Bisphenol A:

TSCA Inventory Status: Listed Canada DSL: Listed

Canada DSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): D2B

### **WHMIS** Pictograms



#### SECTION 16: ADDITIONAL INFORMATION

HMIS Fire Hazard: HMIS Health Hazard: 2\* HMIS Reactivity: 1 HMIS Personal Protection: Х

MSDS Creation Date: 6/16/2011 MSDS Revision Date: 12/30/2012 MSDS Revision Notes: Formula Update MSDS Author: Actio Corporation

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# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Devcon® DFense Blok™ Quick Patch Hardener

MSDS Manufacturer

Number:

Manufacturer Name: ITW Polymers Adhesives, North America

30 Endicott Street Address: Danvers, MA 01923 General Phone Number: (978) 777-1100

Emergency Phone (800) 424-9300 Number:

CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-

MSDS Creation Date: 6/16/2011 MSDS Revision Date: 12/30/2012



Chronic Health Effe cts

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Polyamide-Polymercaptan Epoxy Hardener	Proprietary	5 - 10 by weight
Aluminum oxide	1344-28-1	30 <b>-</b> 60 by weight
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	1 - 5 by weight
Non-hazardous ingredients.	N/A	1 - 4 by weight
Inert material	N/A	1 - 5 by weight
Polymercaptan polymer	Pro prieta ry	10 - 30 by weight
Aluminum (III) silicate	1302-76-7	10 - 30 by weight

# SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: WARNING! Irritant. Potential Sensitizer Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Signs/Symptoms:

Eye:

Can cause severe eye irritation and burns. Eye contact may cause

permanent damage or blindness.

Contact causes severe skin irritation and possible burns. may cause permanent skin damage. Allergic reactions are possible. Skin:

May cause skin sensitization, an allergic reaction, which becomes evident

on reexposure to this material.

Inhalation: May cause severe respiratory system irritation.

Ingestion: Harmful if swallowed. Corrosive to the gastrointestinal tract.

Chronic Health Effects: Prolonged skin contact causes burns.

Repeated or prolonged inhalation may cause toxic effects. Depending on solution concentration, material may be corrosive to skin,

mucous membranes and eyes. Vapors may cause respiratory irritation.

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing

Individuals with pre-existing skin disorders, asthma, allergies or known Conditions: sensitization may be more susceptible to the effects of this product.

# SECTION 4: FIRST AID MEASURES

 $Immediately\ flush\ eyes\ with\ plenty\ of\ water\ for\ at\ least\ 15\ to\ 20\ minutes.$  Ensure adequate flushing of the eyes by separating the eyelids with Eye Contact:

fingers. Get immediate medical attention.

Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated dothing and shoes. Skin Contact:

Get medical attention if irritation develops or persists.

If inhaled, remove to fresh air. If not breathing, give artificial respiration Inhalation:

or give oxygen by trained personnel. Seek immediate medical attention.

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious

Other First Aid: Due to possible aspiration into the lungs, DO NOT induce vomiting if

ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the

risk of aspiration.

### SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties: Class III B.

Flash Point: >200°F (93.3°C) Flash Point Method: Estimated.

Auto Ignition Temperature: Not determined. Lower Flammable/Explosive Not determined.

Inaestion:

Upper Flammable/Explosive Not determined.

Evacuate area of unprotected personnel. Use cold water spray to cool fire Fire Fighting Instructions:

exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off wa te r.

Extinguishing Media: Use carbon dioxide (CO2) or dry chemical when fighting fires involving

this material.

Unsuitable Media: Water or foam may cause frothing.

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA),

MSHA/NIOSH (approved or equivalent) and full protective gear.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill Cleanup Measures: Absorb spill with inert material (e,g., dry sand or earth), then place in a

chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal,

flush spill area with soap and water to remove trace residue.

Corrosive. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in section 8.

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Other Precautions: Pump or shovel to storage/salvage vessels.

### SECTION 7: HANDLING and STORAGE

Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Handling:

Avoid contact with eyes and skin. Do not reuse containers without proper

cleaning or reconditioning.

Storage: Store in a cool, dry, well ventilated area away from sources of heat and

incompatible materials. Keep container tightly closed when not in use. Do not store in reactive metal containers. Keep away from acids, oxidizers.

Special Handling Procedures: Provide appropriate ventilation/respiratory protection against

decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured

Hygiene Practices: Wash thoroughly after handling.

#### SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls: Use appropriate engineering control such as process enclosures, local

exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance

of the personal protective equipment.

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29

CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, Skin Protection Description:

skin or clothing.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate

protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an

## EXPOSURE GUIDELINES

Aluminum oxide:

Guideline ACGIH:

10 mg/m3 TLV-TWA: 10 mg/m3

Guideline OSHA: 5 mg/m3

PEL-TWA: 15 mg/m3 Total particulate/dust (T) PEL-TWA: 5 mg/m3 Respirable fraction (R)

eyewash and a deluge shower safety station.

Notes: Only established PEL and TLV values for the ingredients are listed.

### SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Solid. Amber.

Ammonia like fishy. Odor: Boiling Point: >212°F (100°C) Melting Point: Not determined.

Specific Gravity: > 3.0 % Solubility: Vapor Density: >1 (air = 1)Vapor Pressure: <21 mmHg @70°F Percent Volatile: Not determined. Evaporation Rate: <1 (butyl acetate = 1)

alkaline Molecular Formula: Mixture Molecular Weight: Mixture Flash Point: >200°F (93.3°C)

Flash Point Method: Estimated. Auto Ignition Temperature: Not determined VOC Content: Not determined. Percent Solids by Weight Not determined.

## SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Hazardous Polymerization:

Conditions to Avoid:

Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Product may slowly corrode copper, aluminum,

zinc and galvanized surfaces.

Incompatible Materials: Oxidizers, acids, and chlorinated organic compounds. Reactive metals

(e.g. sodium, calcium, zinc). Sodium/calcium hypochlorite. Nitrous acid/oxide, nitrites. Peroxides. Materials reactive with hydroxyl compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION

Aluminum oxide:

Ingestion:

RTECS Number:

Skin: Intraperitoneal. - Mouse LD50: >3600 mg/kg [Details of toxic effects not

reported other than lethal dose value]

2,4,6-tris(dimethylaminomethyl)phenol: RTECS Number: SN3500000

Eye: Eye - Rabbit Standard Draize test.: 50 ug/24H [severe]

Oral - Rat LD50 : 1200 mg/kg [Peripheral Nerve and Sensation - Flaccid Skin:

paralysis without anesthesia (usually neuromuscular blockage) Lungs, Thorax, or Respiration - Dyspnea] Administration onto the skin - Rat LD50 : 1280 mg/kg [Details of toxic

effects not reported other than lethal dose value]

Oral - Rat LD50 : 1200 mg/kg [Peripheral Nerve and Sensation - Flaccid paralysis without anesthesia (usually neuromuscular blockage) Lungs,

Thorax, or Respiration - Dyspnea]

RTECS Number: BD1450000

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product. Environmental Fate: No environmental information found for this product. Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult

with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or

state and local guidelines.

### SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Non regulated.
DOT UN Number: Non regulated.

### SECTION 15: REGULATORY INFORMATION

### Aluminum oxide:

TSCA Inventory Status: Listed

SARA: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.

New Jersey: Listed: NJ Hazardous List; Substance Number: 2891

Massachusetts: Listed
Pennsylvania: Listed
Canada DSL: Listed

2,4,6-tris(dimethylaminomethyl)phenol:
TSCA Inventory Status: Listed
Canada DSL: Listed

Aluminum (III) silicate:

Canada DSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): E; D2B

All components of this product are on the Canadian Domestic Substances

List

### WHMIS Pictograms



# SECTION 16: ADDITIONAL INFORMATION

HMIS Fire Hazard: 1
HMIS Health Hazard: 2\*
HMIS Reactivity: 0
HMIS Personal Protection: X

MSDS Creation Date: 6/16/2011
MSDS Revision Date: 12/30/2012
MSDS Author: Actio Corporation

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