

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.18.2019

Page 1 of 12

EPO Patch & Grout/ Resurfacer, "B"

## SECTION 1: Identification

### Product identifier

Product name: EPO Patch & Grout/ Resurfacer, "B"

### Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

### Manufacturer or supplier details

#### Manufacturer:

#### United States

Dynamis Epoxy Systems

415 E. Venice Avenue

Venice, FL 34285

941.488.3999

### Emergency telephone number:

#### United States

ChemTel

(888)-255-3924 (24 hours)

## SECTION 2: Hazard(s) identification

### GHS classification:

Skin corrosion, category 1B

Serious eye damage, category 1

Skin sensitization, category 1

Carcinogenicity, category 1B

### Label elements

#### Hazard pictograms:



Signal word: Danger

### Hazard statements:

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H317 May cause an allergic skin reaction

H350 May cause cancer

### Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P264 Wash hands thoroughly after handling

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

P272 Contaminated work clothing must not be allowed out of the workplace

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.18.2019

Page 2 of 12

## EPO Patch & Grout/ Resurfacer, "B"

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P363 Wash contaminated clothing before reuse  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P310 Immediately call a POISON CENTER or doctor  
P321 Specific treatment (see supplemental first aid instructions on this label)  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention  
P308+P313 IF exposed or concerned: Get medical advice/attention  
P405 Store locked up  
P501 Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified: None

## SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 112-57-2	3,6,9-triazaundecamethylenediamine tetraethylenepentamine	<10
CAS number: 112-24-3	Triethylenetetramine	<1
CAS number: 68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	70-80
CAS number: 68477-30-5	Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling	5-10
CAS number: 91-20-3	Naphthalene	0.001-0.1
CAS number: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	10-15

### Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

## SECTION 4: First aid measures

### Description of first aid measures

#### General notes:

Show this Safety Data Sheet to the doctor in attendance.

#### After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

#### After skin contact:

Treatment is urgent. Seek emergency medical treatment. Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.18.2019

Page 3 of 12

### EPO Patch & Grout/ Resurfacer, "B"

before reuse.

#### After eye contact:

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist.

#### After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. Seek immediate medical attention.

#### Most important symptoms and effects, both acute and delayed

##### Acute symptoms and effects:

Exposure to skin may result in redness, pain, burning, inflammation and tissue damage. Exposure to eyes may result in irritation, redness, pain, inflammation, itching, burning and tearing. Exposure via inhalation may result in cough, sore throat, burning sensation and shortness of breath. Exposure via ingestion may result in burns of the mouth and throat, abdominal pain, burning sensation in the throat and chest, nausea, vomiting, shock or collapse.

##### Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).  
Exposure may cause cancer.

#### Immediate medical attention and special treatment

##### Specific treatment:

Not determined or not applicable.

##### Notes for the doctor:

Treat symptomatically.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

Not determined or not applicable.

##### Unsuitable extinguishing media:

Not determined or not applicable.

#### Specific hazards during fire-fighting:

Evacuate all personnel to a predetermined safe location, no less than 2,500 feet in all directions. Can explode or detonate under fire conditions. Burning material may produce toxic vapors.

#### Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

#### Special precautions:

Avoid inhaling gases, fumes, mist, dust, vapor or aerosols. Avoid contact with eyes, skin, hair or clothing.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Shut off all possible sources of ignition and avoid friction and impact.

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.18.2019

Page 4 of 12

## EPO Patch & Grout/ Resurfacer, "B"

protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Environmental precautions:

Avoid release to the environment. Prevent soil and water pollution. Prevent spreading in sewers. Notify authorities if product enters sewers or public waters

### Methods and material for containment and cleaning up:

Not determined or not applicable.

### Reference to other sections:

For further information refer to section 7 and section 13.

For personal protection see section 8.

## SECTION 7: Handling and storage

### Precautions for safe handling:

Not determined or not applicable.

### Conditions for safe storage, including any incompatibilities:

Store in cool location. Keep away from food and beverages. Protect from freezing and physical damage.

Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

## SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
WEEL	3,6,9-triazaundecamethylenediamine tetraethylenepentamine	112-57-2	8-Hour TWA: 6 mg/m <sup>3</sup> (1.0 ppm)
	Triethylenetetramine	112-24-3	TWA: 1 ppm
ACGIH	Naphthalene	91-20-3	TWA: 10 ppm
	Naphthalene	91-20-3	STEL: 15 ppm
United States	Naphthalene	91-20-3	TWA: 10 ppm
	Naphthalene	91-20-3	TWA: 50 mg/m <sup>3</sup>
NIOSH	Naphthalene	91-20-3	TWA: 10 ppm
	Naphthalene	91-20-3	TWA: 50 mg/m <sup>3</sup>
	Naphthalene	91-20-3	STEL: 15 ppm
	Naphthalene	91-20-3	STEL: 75 mg/m <sup>3</sup>

### Biological limit values:

No biological exposure limits noted for the ingredient(s).

### Information on monitoring procedures:

Not determined or not applicable.

### Appropriate engineering controls:

Effective ventilation in all processing areas.

### Personal protection equipment

#### Eye and face protection:

Not determined or not applicable.

#### Skin and body protection:

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.18.2019

Page 5 of 12

## EPO Patch & Grout/ Resurfacer, "B"

Impervious clothing and chemical resistant gloves

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory protection

### General hygienic measures:

Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday. Appropriate techniques should be applied to remove contaminated clothing and shoes. Wash contaminated clothing before reuse.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Clear, brown/red color liquid
Odor	Mild amine
Odor threshold	Not applicable
pH	8.75
Melting point/freezing point	Not applicable
Initial boiling point/range	Not applicable
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Nil
Flammability (solid, gas)	Not applicable
Upper flammability/explosive limit	Not applicable
Lower flammability/explosive limit	Not applicable
Vapor pressure	1 mm Hg
Vapor density	Not applicable
Density	0.94 g/cm <sup>3</sup>
Relative density	0.88 (water = 1.0)
Solubilities	Water, negligible
Partition coefficient (n-octanol/water)	Not applicable
Auto/Self-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Dynamic viscosity	500 cps
Kinematic viscosity	Not applicable
Explosive properties	Not applicable
Oxidizing properties	Not applicable

### Other information

## SECTION 10: Stability and reactivity

### Reactivity:

Does not react under normal conditions of use and storage.

### Chemical stability:

Stable under normal conditions of use and storage.

### Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.18.2019

Page 6 of 12

EPO Patch & Grout/ Resurfacer, "B"

## Conditions to avoid:

None known.

## Incompatible materials:

None known.

## Hazardous decomposition products:

None known.

## SECTION 11: Toxicological information

### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

#### Substance data:

Name	Route	Result
3,6,9-triazaundecamethylenediamine tetraethylenepentamine	oral	LD50 Rat: 3990 mg/kg LD50 NA: 500 (ATE) mg/kg
	dermal	LD50 NA: 1100 (ATE) mg/kg
Triethylenetetramine	oral	LD50 Rat: 2500 mg/kg
	dermal	LD50 Rabbit: 850 mg/kg
Naphthalene	oral	LD50 Rat: 490 mg/kg
	dermal	LD50 Rabbit: >2500 mg/kg
	inhalation	LC50 Rat: 340 mg/m <sup>3</sup> (1 hr.)
2,4,6-tris(dimethylaminomethyl)phenol	oral	LD50 Rat: 1200 mg/kg

### Skin corrosion/irritation

#### Assessment:

Causes severe skin burns and eye damage.

#### Product data:

No data available.

#### Substance data:

Name	Result
3,6,9-triazaundecamethylenediamine tetraethylenepentamine	Causes severe skin burns.
Triethylenetetramine	Causes severe skin burns.
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Causes severe skin burns.
2,4,6-tris(dimethylaminomethyl)phenol	Causes skin irritation.

### Serious eye damage/irritation

#### Assessment:

Causes serious eye damage.

#### Product data:

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.18.2019

Page 7 of 12

EPO Patch & Grout/ Resurfacer, "B"

No data available.

### Substance data:

Name	Result
3,6,9-triazaundecamethylenediamine tetraethylenepentamine	Causes serious eye damage.
Triethylenetetramine	Causes serious eye damage.
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Causes serious eye damage.
2,4,6-tris(dimethylaminomethyl)phenol	Causes serious eye irritation.

### Respiratory or skin sensitization

#### Assessment:

May cause an allergic skin reaction.

#### Product data:

No data available.

#### Substance data:

Name	Result
3,6,9-triazaundecamethylenediamine tetraethylenepentamine	May cause an allergic skin reaction.
Triethylenetetramine	May cause an allergic skin reaction.
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	May cause an allergic skin reaction.

### Carcinogenicity

#### Assessment:

May cause cancer.

Product data: No data available.

#### Substance data:

Name	Species	Result
Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling	Not Applicable	May cause cancer
Naphthalene		Suspected of causing cancer.

#### International Agency for Research on Cancer (IARC):

Name	Classification
Naphthalene	Group 2B

#### National Toxicology Program (NTP):

Name	Classification
Naphthalene	Reasonably anticipated to be human carcinogens

### Germ cell mutagenicity

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.18.2019

Page 8 of 12

## EPO Patch & Grout/ Resurfacer, "B"

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:**

Name	Result
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	May cause respiratory irritation.

### Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Information on likely routes of exposure:

No data available.

### Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

### Other information:

No data available.

## SECTION 12: Ecological information

### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

Name	Result
Naphthalene	LC50 Opossum Shrimp: 0.85 mg/L (96h)

### Chronic (long-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.



# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.18.2019

Page 9 of 12

EPO Patch & Grout/ Resurfacer, "B"

## Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
2,4,6-tris(dimethylaminomethyl)phenol	Not readily biodegradable in water.

## Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

## Mobility in soil

Product data: No data available.

Substance data:

Name	Result
2,4,6-tris(dimethylaminomethyl)phenol	Not readily biodegradable in water.

Other adverse effects: No data available.

## SECTION 13: Disposal considerations

### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

### Contaminated packages:

Not determined or not applicable.

## SECTION 14: Transport information

### United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN 1760
UN proper shipping name	Corrosive liquids, n.o.s. 3,6,9-triazaundecamethylenediamine tetraethylenepentamine
UN transport hazard class(es)	8
Packing group	II
Environmental hazards	None
Special precautions for user	None
Passenger air/rail	1 L
Cargo aircraft only	30 L
Stowage category	B

### International Maritime Dangerous Goods (IMDG)

UN number	UN 1760
UN proper shipping name	Corrosive liquids, n.o.s. 3,6,9-triazaundecamethylenediamine tetraethylenepentamine

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.18.2019

Page 10 of 12

### EPO Patch & Grout/ Resurfacer, "B"

UN transport hazard class(es)	8
Packing group	II
Environmental hazards	None
Special precautions for user	None
EmS number	F-A, S-B
Stowage category	B
Excepted quantities	E2
Limited quantity	1L

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN 1760
UN proper shipping name	Corrosive liquids, n.o.s. 3,6,9-triazaundecamethylenediamine tetraethylenepentamine
UN transport hazard class(es)	8
Packing group	II
Environmental hazards	None
Special precautions for user	None
ERG code	8L
Excepted quantities	E2
Passenger and cargo	1 L
Cargo aircraft only	30 L
Limited quantity	0.5 L

### SECTION 15: Regulatory information

#### United States regulations

##### Inventory listing (TSCA):

112-57-2	3,6,9-triazaundecamethylenediamine tetraethylenepentamine	Listed
112-24-3	Triethylenetetramine	Listed
68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Listed
68477-30-5	Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling	Listed
91-20-3	Naphthalene	Listed
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Listed

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 extremely hazardous substances:** None of the ingredients are listed.

**SARA Section 313 toxic chemicals:**

112-57-2	3,6,9-triazaundecamethylenediamine tetraethylenepentamine	Not Listed
----------	---	------------

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.18.2019

Page 11 of 12

EPO Patch & Grout/ Resurfacer, "B"

112-24-3	Triethylenetetramine	Not Listed
68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Not Listed
68477-30-5	Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling	Not Listed
91-20-3	Naphthalene	Listed
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Not Listed

**CERCLA:**

91-20-3	Naphthalene	Listed	100
---------	-------------	--------	-----

**RCRA:**

91-20-3	Naphthalene	Listed	U165
---------	-------------	--------	------

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

**Massachusetts Right to Know:**

112-57-2	3,6,9-triazaundecamethylenediamine tetraethylenepentamine	Listed
112-24-3	Triethylenetetramine	Listed
68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Not Listed
68477-30-5	Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling	Not Listed
91-20-3	Naphthalene	Listed
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Not Listed

**New Jersey Right to Know:**

112-57-2	3,6,9-triazaundecamethylenediamine tetraethylenepentamine	Listed
112-24-3	Triethylenetetramine	Listed
68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Not Listed
68477-30-5	Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling	Not Listed
91-20-3	Naphthalene	Listed
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Not Listed

**New York Right to Know:**

112-57-2	3,6,9-triazaundecamethylenediamine tetraethylenepentamine	Listed
112-24-3	Triethylenetetramine	Listed
68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Not Listed
68477-30-5	Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling	Not Listed
91-20-3	Naphthalene	Listed
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Not Listed

**Pennsylvania Right to Know:**

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.18.2019

Page 12 of 12

### EPO Patch & Grout/ Resurfacer, "B"

112-57-2	3,6,9-triazaundecamethylenediamine tetraethylenepentamine	Listed
112-24-3	Triethylenetetramine	Listed
68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Not Listed
68477-30-5	Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling	Not Listed
91-20-3	Naphthalene	Listed
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Not Listed

#### California Proposition 65:

**⚠️WARNING:** This product can expose you to Naphthalene; which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### SECTION 16: Other information

**Abbreviations and Acronyms:** None

**Disclaimer:**

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 3-0-0

**HMIS:** 3\*-0-0

**Initial preparation date:** 07.18.2019

**End of Safety Data Sheet**