1. Identification

Product identifier

Product name

CRACKFILL Part A

Recommended use of the chemical and restrictions on use

Application

Two-component, epoxy-based adhesive. Resin.

Details of the supplier of the safety data sheet

Supplier

H&B
30 Rasons Court
Hauppauge, NY 11788
631-234-0600
weanchor@h-b.com
www.h-b.com

Emergency telephone number

Emergency telephone

24-hour emergency call Chemtrec: (800) 255-3924

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards

Not Classified

Health hazards

Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Label elements

Hazard symbols

Signal word

Danger

Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 If on skin: Wash with plenty of water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/ container in accordance with national regulations.

Contains

EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN, BUTANEDIOLDIGLYCIDYL ETHER

3. Composition/information on ingredients

1/10
# CRACKFILL Part A

## Mixtures

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPOXY RESIN (Number average MW ≤ 700)</td>
<td>50-80%</td>
<td>25068-38-6</td>
</tr>
<tr>
<td>EPOXY PHENOL FORMALDEHYDE RESIN</td>
<td>20-50%</td>
<td>9003-36-5</td>
</tr>
<tr>
<td>BUTANEDIOLDIGLYCIDYL ETHER</td>
<td>10-20%</td>
<td>2425-79-8</td>
</tr>
</tbody>
</table>

## 4. First-aid measures

### Description of first aid measures

**Inhalation**
Remove affected person from source of contamination. Get medical attention if any discomfort continues.

**Ingestion**
Do not induce vomiting. Get medical attention immediately.

**Skin Contact**
Remove contaminated clothing immediately and wash skin with soap and water.

**Eye contact**
Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

**Inhalation**
May cause respiratory irritation.

**Ingestion**
May cause stomach pain or vomiting.

**Skin contact**
Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. May cause sensitisation by skin contact.

**Eye contact**
Irritating to eyes.

### Indication of immediate medical attention and special treatment needed

**Notes for the doctor**
No specific recommendations. If in doubt, get medical attention promptly.

## 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media**
Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media**
Do not use water, if avoidable.

### Special hazards arising from the substance or mixture

**Specific hazards**
Not considered to be a significant hazard due to the small quantities used.

**Hazardous combustion products**

### Advice for firefighters

**Protective actions during firefighting**
No specific requirements are anticipated under normal conditions of use.
CRACKFILL Part A

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions
Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up
Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

Reference to other sections
For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions
Avoid contact with eyes. Avoid contact with skin.

Advice on general occupational hygiene
Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

Conditions for safe storage, including any incompatibilities

Storage precautions
Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use.

Specific end uses(s)
The identified uses for this product are detailed in Section 1.

8. Exposure controls/Personal protection

Exposure controls

Protective equipment

Appropriate engineering controls
No specific ventilation requirements.

Eye/face protection
Wear eye protection.

Hand protection
Wear protective gloves made of the following material: Nitrile rubber.

Hygiene measures
Provide eyewash station. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

Respiratory protection
Not relevant.

Environmental exposure controls
Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.
CRACKFILL Part A

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless to pale yellow.</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>&gt;35°C @ 760 mm Hg</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;100°C Closed cup.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available.</td>
</tr>
<tr>
<td>Evaporation factor</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Other flammability</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt;500 Pa @ °C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.1 - 1.2</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Insoluble in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>500 - 1000 mPa s @ 20°C</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available.</td>
</tr>
<tr>
<td>Explosive under the influence of a flame</td>
<td>No</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Does not meet the criteria for classification as oxidizing.</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>The following materials may react with the product: Acids. Amides. Amines. Phenols, cresols.</td>
</tr>
<tr>
<td>Stability</td>
<td>Stable at normal ambient temperatures and when used as recommended.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>The following materials may react with the product: Acids. Amides. Amines. Phenols, cresols.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Avoid contact with acids and alkalis.</td>
</tr>
</tbody>
</table>
CRACKFILL Part A

Materials to avoid  Acids. Amines. Amides.

11. Toxicological Information

Information on toxicological effects

Acute toxicity - oral
ATE oral (mg/kg)  3,333.33

Acute toxicity - dermal
ATE dermal (mg/kg)  7,333.33

Acute toxicity - inhalation
ATE inhalation (vapours mg/l)  73.33

Skin sensitization
Sensitizing.

General information
Contains epoxy constituents. See information supplied by the manufacturer.

Inhalation
No specific health hazards known.

Ingestion
No harmful effects expected from quantities likely to be ingested by accident.

Skin Contact
Irritating to skin. May cause sensitisation by skin contact.

Eye contact
May cause severe eye irritation.

Acute and chronic health hazards
Irritating to skin. Irritating to eyes.

Route of exposure
Skin and/or eye contact

Medical Symptoms
Skin irritation.

Medical considerations
Skin disorders and allergies.

Toxicological information on ingredients.

BUTANEDIOLDIGLYCIDYL ETHER

Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg)  1,163.0
Species  Rat
ATE oral (mg/kg)  500.0

Acute toxicity - dermal
Acute toxicity dermal (LD₅₀ mg/kg)  2,150.0
Species  Rat
ATE dermal (mg/kg)  1,100.0

Acute toxicity - inhalation
CRACKFILL Part A

ATE inhalation (vapours mg/l) 11.0

12. Ecological information

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.8 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 11 mg/l, Freshwater algae

EC₅₀, 96 hours: 220 mg/l, Scenedesmus subspicatus

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.3 mg/l, Daphnia magna

BUTANEDIOLDIGLYCIDYL ETHER

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 24 hours: 61 mg/l, Brachydanio rerio (Zebra Fish)

LC₅₀, 48 hours: 43 mg/l, Brachydanio rerio (Zebra Fish)

LC₅₀, 72 hours: mg/l, Brachydanio rerio (Zebra Fish)

LC₅₀, 96 hours: 24 mg/l, Brachydanio rerio (Zebra Fish)

LC₅₀, 96 hours: 18 mg/l, Brachydanio rerio (Zebra Fish)

LC₅₀, 96 hours: 32 mg/l, Brachydanio rerio (Zebra Fish)

REACH dossier information

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: 75 mg/l, Daphnia magna

EC₅₀, 24 hours: 32 mg/l, Daphnia magna

EC₅₀, 24 hours: > 100 mg/l, Daphnia magna

REACH dossier information

Acute toxicity - microorganisms IC₅₀, 3 hours: > 100 mg/l, Activated sludge

REACH dossier information

Persistence and degradability

The product is not biodegradable.

Biodegradation - 12% Degradation (%): 28 days

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.
CRACKFILL Part A

**Bio-Accumulative Potential**  May accumulate in soil and water systems. BCF: 100 - 3000,

**Partition coefficient**  log Pow: 3.242 Estimated Value

**Mobility in soil**

**Mobility**  The product is insoluble in water and will spread on the water surface. The product is non-volatile. Semi-mobile.

**Ecological information on ingredients.**  

**EPOXY RESIN (Number average MW <= 700)**

**Mobility**  Semi-mobile.

**Adsorption/desorption coefficient**  Water - Koc: 1800 - 4400 @ 25°C Estimated Value

**Henry's law constant**  4.93E-05 Pa m3/mol @ 25°C

### 13. Disposal considerations

**Waste treatment methods**

**Disposal methods**  Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Dispose of waste via a licensed waste disposal contractor.

### 14. Transport information

**UN Number**

| UN No. (TDG) | 3082 |
| UN No. (IMDG) | 3082 |
| UN No. (ICAO) | 3082 |
| UN No. (DOT) | UN3082 |

**UN proper shipping name**

**Proper shipping name (TDG)**  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN)

**Proper shipping name (IMDG)**  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN)

**Proper shipping name (ICAO)**  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN)

**Proper shipping name (DOT)**  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN)

**Transport hazard class(es)**

| DOT hazard class | 9 |
| DOT hazard label | 9 |
| TDG class | 9 |
| TDG label(s) | 9 |
| IMDG Class | 9 |
| ICAO class/division | 9 |
CRACKFILL Part A

Transport labels

DOT transport labels

Packing group
TDG Packing Group III
IMDG packing group III
ICAO packing group III
DOT packing group III

Environmental hazards
Environmentally Hazardous Substance

Special precautions for user
EmS F-A, S-F

Transport in bulk according to Not applicable.
Annex II of MARPOL 73/78
and the IBC Code

15. Regulatory information

US Federal Regulations
SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed or exempt.

SARA 313 Emission Reporting
None of the ingredients are listed or exempt.

CAA Accidental Release Prevention
None of the ingredients are listed or exempt.

FDA - Essential Chemical
None of the ingredients are listed or exempt.

FDA - Precursor Chemical
None of the ingredients are listed or exempt.
CRACKFILL Part A

OSHA  Highly Hazardous Chemicals
None of the ingredients are listed or exempt.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I)
None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances
None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List
None of the ingredients are listed or exempt.

Rhode Island "Right To Know" List
None of the ingredients are listed or exempt.

Minnesota "Right To Know" List
None of the ingredients are listed or exempt.

New Jersey "Right To Know" List
None of the ingredients are listed or exempt.

Pennsylvania "Right To Know" List
None of the ingredients are listed or exempt.

Inventories
Canada - DSL/NDSL
The following ingredients are listed or exempt:

US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
The following ingredients are listed or exempt:

16. Other information

<table>
<thead>
<tr>
<th>Revision comments</th>
<th>NOTE: Lines within the margin indicate significant changes from the previous revision.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>5/23/2019</td>
</tr>
<tr>
<td>Version number</td>
<td>2.000</td>
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<tr>
<td>Supersedes date</td>
<td>6/11/2018</td>
</tr>
<tr>
<td>SDS No.</td>
<td>21147</td>
</tr>
</tbody>
</table>
| Hazard statements in full | H315 Causes skin irritation.  
|                   | H317 May cause an allergic skin reaction.                                       
|                   | H318 Causes serious eye damage.                                                    |
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.