

**Safety Data Sheet**  
**Uni-Flex Catalyst (12 x 13 oz.)**

SDS Revision Date:

06/22/2016



**1. Identification**

**1.1. Product identifier**

**Product Identity** Uni-Flex Catalyst (12 x 13 oz.)  
**Alternate Names** Product Code: 62860201000

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Intended use** Cross-linking agent. Restricted to professional users.  
**Application Method** See Technical Data Sheet.

**1.3. Details of the supplier of the safety data sheet**

**Company Name** Brunswick Bowling Products, LLC.  
525 W. Laketon Ave.  
Muskegon, MI 49441 USA

**Emergency**

**24 hour Emergency Telephone No. (CHEMTEL)** US: 1-800-255-3924  
International: +01-813-248-0585

**Customer Service: Brunswick Bowling Products, LLC** 231-725-4966

**2. Hazard(s) identification**

**2.1. Classification of the substance or mixture**

|                         |   |
|-------------------------|---|
| Combustible Liquid;H227 | Combustible Liquid.   |
| Acute Tox. 5;H303       | May be harmful if swallowed. (Not adopted by US OSHA)         |
| Acute Tox. 5;H313       | May be harmful in contact with skin. (Not adopted by US OSHA) |
| Acute Tox. 4;H332       | Harmful if inhaled.   |
| Skin Irrit. 2;H315      | Causes skin irritation.                                       |
| Eye Irrit. 2;H319       | Causes serious eye irritation.                                |

**2.2. Label elements**

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Warning**

H227 Combustible liquid.

H303 May be harmful if swallowed.

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H313 May be harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

### [Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / eye protection / face protection.

### [Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P321 Specific treatment (see information on this label).

P332+313 If skin irritation occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P362 Take off contaminated clothing and wash before reuse.

### [Storage]:

P403+235 Store in a well ventilated place. Keep cool.

### [Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

## 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations                            | Weight % | GHS Classification   | Notes  |
|---|----------|--|--------|
| Ethylene glycol monobutyl ether<br>CAS Number: 0000111-76-2 | 25 - 50  | Acute Tox. 4;H332<br>Acute Tox. 4;H312<br>Acute Tox. 4;H302<br>Eye Irrit. 2;H319<br>Skin Irrit. 2;H315 | [1][2] |

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

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### 4. First aid measures

#### 4.1. Description of first aid measures

|                   |   |
|-------------------|---|
| <b>General</b>    | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.   |
| <b>Inhalation</b> | Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth. |
| <b>Eyes</b>       | Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.  |
| <b>Skin</b>       | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.   |
| <b>Ingestion</b>  | Rinse mouth. Call a physician or Poison Control Center immediately. DO NOT induce vomiting unless advised by a physician.   |

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

|                   |  |
|-------------------|--|
| <b>Overview</b>   | <b>Notes to Physician:</b> Treat Symptomatically<br><b>Protection of First-Responders:</b> Avoid contact with skin, eyes and clothing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; use artificial respiration with the aid of a pocket mask equipped with a one-way valve or other respiratory medical device.<br>See section 2 for further details. |
| <b>Inhalation</b> | Harmful if inhaled.  |
| <b>Eyes</b>       | Causes serious eye irritation.   |
| <b>Skin</b>       | May be harmful in contact with skin. Causes skin irritation.   |
| <b>Ingestion</b>  | May be harmful if swallowed.   |

### 5. Fire-fighting measures

#### 5.1. Extinguishing media

Carbon dioxide (CO<sub>2</sub>), Dry powder, Alcohol-resistant foam

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.  
Keep away from heat / sparks / open flames / hot surfaces - No smoking.  
Avoid breathing dust / fume / gas / mist / vapors / spray.

#### 5.3. Advice for fire-fighters

Use self-contained breathing apparatus. Use water for cooling container to prevent pressure buildup, auto-ignition, or explosion. Avoid spreading burning liquid with water.

**ERG Guide No.** ----

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### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid contact with the skin and the eyes. Corrosive hazard - wear protective gloves/clothing and eye/face protection.

Do not take internally.

Ensure adequate ventilation. Avoid prolonged breathing of vapors.

#### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### 6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.

See section 2 for further details. - [Prevention]:

#### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Store in a cool dry area, away from heat, sparks and open flame. Keep containers sealed when not in use. Store out of direct sunlight.

Incompatible materials: No data available.

Keep container tightly closed in a dry and well-ventilated place. Keep at temperatures between 4°C and 38°C. Keep out of the reach of children. Keep in properly labeled containers.

See section 2 for further details. - [Storage]:

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### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

#### Exposure

| CAS No.      | Ingredient                      | Source   | Value                                      |
|--------------|---------------------------------|----------|--|
| 0000111-76-2 | Ethylene glycol monobutyl ether | OSHA     | TWA 50 ppm (240 mg/m <sup>3</sup> ) [skin] |
|              |                                 | ACGIH    | TWA: 20 ppm Revised 2003,                  |
|              |                                 | NIOSH    | TWA 5 ppm (24 mg/m <sup>3</sup> ) [skin]   |
|              |                                 | Supplier | No Established Limit                       |

### Carcinogen Data

| CAS No.      | Ingredient                      | Source | Value   |
|--------------|---------------------------------|--------|---|
| 0000111-76-2 | Ethylene glycol monobutyl ether | OSHA   | Select Carcinogen: No   |
|              |                                 | NTP    | Known: No; Suspected: No  |
|              |                                 | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No; |

### 8.2. Exposure controls

#### Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

#### Eyes

Safety glasses with side shields

#### Skin

Chemical resistant gloves/gauntlets, boots and apron (where risk of splashing)

#### Engineering Controls

Local exhaust ventilation is recommended. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapor.

#### Other Work Practices

Provide eye bath and safety shower. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

#### Appearance

Yellow Liquid

#### Odor

Solvent

#### Odor threshold

Not determined

#### pH

Not Measured

#### Melting point / freezing point

Not Measured

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|  |  |
|--|--|
| <b>Initial boiling point and boiling range</b>         | Not Measured   |
| <b>Flash Point</b>                                     | 190°F PMCC   |
| <b>Evaporation rate (Ether = 1)</b>                    | Not Measured   |
| <b>Flammability (solid, gas)</b>                       | Not Applicable   |
| <b>Upper/lower flammability or explosive limits</b>    | <b>Lower Explosive Limit:</b> Not applicable<br><b>Upper Explosive Limit:</b> Not applicable |
| <b>Vapor pressure (Pa)</b>                             | Not Measured   |
| <b>Vapor Density</b>                                   | Not Measured   |
| <b>Specific Gravity</b>                                | Not Measured   |
| <b>Solubility in Water</b>                             | Not Measured   |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | Not Measured   |
| <b>Auto-ignition temperature</b>                       | Not Measured   |
| <b>Decomposition temperature</b>                       | Not Measured   |
| <b>Viscosity (cSt)</b>                                 | Not Measured   |
| <b>9.2. Other information</b>                          |  |
| No other relevant information.                         |  |

## 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

No hazardous decomposition data available.

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### 11. Toxicological information

#### Acute toxicity

| Ingredient                                   | Oral LD50,<br>mg/kg                      | Skin LD50,<br>mg/kg                      | Inhalation<br>Vapor LC50,<br>mg/L/4hr   | Inhalation<br>Dust/Mist LC50,<br>mg/L/4hr | Inhalation<br>Gas LC50,<br>ppm |
|--|--|--|---|---|--------------------------------|
| Ethylene glycol monobutyl ether - (111-76-2) | 1,414.00,<br>Guinea Pig -<br>Category: 4 | 1,200.00,<br>Guinea Pig -<br>Category: 4 | 173.00, Guinea<br>Pig - Category:<br>NA | No data<br>available                      | No data<br>available           |

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Classification                | Category | Hazard Description  |
|-------------------------------|----------|---|
| Acute toxicity (oral)         | 5        | May be harmful if swallowed. (Not adopted by US OSHA)         |
| Acute toxicity (dermal)       | 5        | May be harmful in contact with skin. (Not adopted by US OSHA) |
| Acute toxicity (inhalation)   | 4        | Harmful if inhaled.   |
| Skin corrosion/irritation     | 2        | Causes skin irritation.                                       |
| Serious eye damage/irritation | 2        | Causes serious eye irritation.                                |
| Respiratory sensitization     | ---      | Not Applicable  |
| Skin sensitization            | ---      | Not Applicable  |
| Germ cell mutagenicity        | ---      | Not Applicable  |
| Carcinogenicity               | ---      | Not Applicable  |
| Reproductive toxicity         | ---      | Not Applicable  |
| STOT-single exposure          | ---      | Not Applicable  |
| STOT-repeated exposure        | ---      | Not Applicable  |
| Aspiration hazard             | ---      | Not Applicable  |

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### 12. Ecological information

**12.1. Toxicity**

No additional information provided for this product.  
Ethylene glycol monobutyl ether - (111-76-2) Log Pow = 81 @ 25F

**Aquatic Ecotoxicity**

| Ingredient                                   | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|--|-----------------------|----------------------------|-------------------|
| Ethylene glycol monobutyl ether - (111-76-2) | 220.00, Fish (Piscis) | 1,000.00, Daphnia magna    | Not Available     |

**12.2. Persistence and degradability**

There is no data available on the preparation itself.

**12.3. Bioaccumulative potential**

Not Measured

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This product contains no PBT/vPvB chemicals.

**12.6. Other adverse effects**

No data available.

### 13. Disposal considerations

**13.1. Waste treatment methods**

Observe all federal, state and local regulations when disposing of this substance.

### 14. Transport information

|   | DOT (Domestic Surface Transportation) | IMO / IMDG (Ocean Transportation)                 | ICAO/IATA                 |
|---|---------------------------------------|---|---------------------------|
| <b>14.1. UN number</b>                  | Not Regulated                         | Not Regulated                                     | Not Regulated             |
| <b>14.2. UN proper shipping name</b>    | Not Regulated                         | Not Regulated                                     | Not Regulated             |
| <b>14.3. Transport hazard class(es)</b> | DOT Hazard Class: Not Applicable      | IMDG: Not Applicable<br>Sub Class: Not Applicable | Air Class: Not Applicable |
| <b>14.4. Packing group</b>              | Not Applicable                        | Not Applicable                                    | Not Applicable            |
| <b>14.5. Environmental hazards</b>      |                                       |   |                           |
| <b>IMDG</b>                             | Marine Pollutant: No;                 |   |                           |



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**14.6. Special precautions for user**

No further information

|                                   |
|-----------------------------------|
| <b>15. Regulatory information</b> |
|-----------------------------------|

**Regulatory Overview**      The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act ( TSCA)**      All components of this material are either listed or exempt from listing on the TSCA Inventory.

**WHMIS Classification**      B3 D2B

**US EPA Tier II Hazards**

**Fire:** Yes  
**Sudden Release of Pressure:** No  
**Reactive:** No  
**Immediate (Acute):** Yes  
**Delayed (Chronic):** No

**EPCRA 311/312 Chemicals and RQs:**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 302 Extremely Hazardous:**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**  
Ethylene glycol monobutyl ether

**Proposition 65 - Carcinogens (>0.0%):**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**New Jersey RTK Substances (>1%):**  
Ethylene glycol monobutyl ether

**Pennsylvania RTK Substances (>1%):**  
Ethylene glycol monobutyl ether

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**16. Other information**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as 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 material in any process, unless specified in the text.

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