



# EGC31 SLOW ACTIVATOR (EGC31-US)

## Safety Data Sheet EGC31-US

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08/13/2015

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Version: 2.0

### DRIVING SURFACE PERFECTION

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Product form : Mixture  
Product name : EGC31 SLOW ACTIVATOR (EGC31-US)  
Product group : 2K Hardener  
Other means of identification : EGC31-US

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

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

###### Supplier

U-POL US Inc  
108 Commerce Way  
Stockertown PA 18083 - USA  
T 1-800-340-7824 - F 1-800-787-5150  
[technical.department@u-pol.com](mailto:technical.department@u-pol.com) - [www.u-pol.com](http://www.u-pol.com)

##### 1.4. Emergency telephone number

Emergency number : CHEMTREC - 1-800-424-9300 ( UK +44 (0) 1933 230310 (07:30 - 17:00hrs UK time) )

#### SECTION 2: Hazards identification

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

###### GHS-US classification

Flam. Liq. 3 H226  
Skin Sens. 1 H317  
STOT SE 3 H335  
STOT SE 3 H336  
Aquatic Chronic 2 H411

Full text of H statements : see section 16

##### 2.2. Label elements

###### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H226 - Flammable liquid and vapor  
H317 - May cause an allergic skin reaction  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking  
P261 - Avoid breathing fume, spray, vapors  
P273 - Avoid release to the environment  
P280 - Wear face protection, protective clothing, protective gloves  
P302+P352 - If on skin: Wash with plenty of water  
P312 - Call a POISON CENTER if you feel unwell  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

##### 2.3. Other hazards

No additional information available

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### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                      | Product identifier   | %       | GHS-US classification  |
|---|----------------------|---------|--|
| HEXAMETHYLENE DIISOCYANATE OLIGOMERS      | (CAS-No.) 28182-81-2 | < 43    | Acute Tox. 4 (Inhalation), H332<br>Skin Sens. 1, H317<br>STOT SE 3, H335                                 |
| Solvent naphtha (petroleum), light arom., |                      | 23 - 43 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |
| Solvent naphtha (petroleum), light arom., |                      | < 5     | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Call a poison center/doctor/physician if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

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

- Symptoms/effects : May cause drowsiness or dizziness.
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : May cause an allergic skin reaction.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

- Fire hazard : Flammable liquid and vapor.
- Reactivity : Flammable liquid and vapor.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

- Protective equipment : Safety glasses. Protective clothing. Gloves.
- Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing vapors, fume, spray. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

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### 6.2. Environmental precautions

Avoid release to the environment.

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

- For containment : Contain leaking substance. Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing vapors, fume, spray. Avoid contact with skin and eyes.  
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Technical measures : Ground/bond container and receiving equipment.  
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.  
Storage temperature : < 25 °C  
Storage area : Store in a well-ventilated place.  
Special rules on packaging : Keep only in original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| EGC31 SLOW ACTIVATOR (EGC31-US)                   |                |
|---|----------------|
| ACGIH   | Not applicable |
| OSHA  | Not applicable |
| Solvent naphtha (petroleum), light arom.,         |                |
| ACGIH   | Not applicable |
| OSHA  | Not applicable |
| HEXAMETHYLENE DIISOCYANATE OLIGOMERS (28182-81-2) |                |
| ACGIH   | Not applicable |
| OSHA  | Not applicable |
| Solvent naphtha (petroleum), light arom.,         |                |
| ACGIH   | Not applicable |
| OSHA  | Not applicable |

### 8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.  
Personal protective equipment : Gas mask. Gloves. Protective clothing. Safety glasses.



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|                                   |   |
|-----------------------------------|---|
| Materials for protective clothing | : Impermeable clothing.   |
| Hand protection                   | : Protective gloves.  |
| Eye protection                    | : Safety glasses.   |
| Skin and body protection          | : Wear suitable protective clothing.  |
| Respiratory protection            | : Air-fed respiratory protective equipment should be worn when this product is sprayed. |
| Environmental exposure controls   | : Avoid release to the environment.   |

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |   |
|---|---|
| Physical state                              | : Liquid  |
| Appearance                                  | : Liquid.   |
| Color                                       | : Colorless   |
| Odor  | : aromatic  |
| Odor threshold                              | : No data available                                     |
| pH  | : No data available                                     |
| Relative evaporation rate (butyl acetate=1) | : No data available                                     |
| Melting point                               | : Not applicable  |
| Freezing point                              | : No data available                                     |
| Boiling point                               | : No data available                                     |
| Flash point                                 | : 42 °C   |
| Auto-ignition temperature                   | : No data available                                     |
| Decomposition temperature                   | : No data available                                     |
| Flammability (solid, gas)                   | : No data available                                     |
| Vapor pressure                              | : No data available                                     |
| Relative vapor density at 20 °C             | : No data available                                     |
| Relative density                            | : No data available                                     |
| Specific gravity / density                  | : 0.97 - 0.99 g/cm <sup>3</sup>                         |
| Solubility                                  | : insoluble in water. soluble in most organic solvents. |
| Log Pow                                     | : No data available                                     |
| Log Kow                                     | : No data available                                     |
| Viscosity, kinematic                        | : No data available                                     |
| Viscosity, dynamic                          | : No data available                                     |
| Explosive properties                        | : No data available                                     |
| Oxidizing properties                        | : No data available                                     |
| Explosion limits                            | : No data available                                     |

#### 9.2. Other information

|                          |           |
|--------------------------|-----------|
| VOC content - Actual     | : 635 g/l |
| VOC content - Regulatory | : 635 g/l |

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Flammable liquid and vapor.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| HEXAMETHYLENE DIISOCYANATE OLIGOMERS (28182-81-2) |              |
|---|--------------|
| ATE US (gases)                                    | 4500 ppmV/4h |
| ATE US (vapors)                                   | 11 mg/l/4h   |
| ATE US (dust, mist)                               | 1.5 mg/l/4h  |

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitization : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

Reproductive toxicity : Not classified  
Specific target organ toxicity – single exposure : May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified  
Symptoms/effects after inhalation : May cause respiratory irritation.  
Symptoms/effects after skin contact : May cause an allergic skin reaction.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

| Solvent naphtha (petroleum), light arom., |   |
|---|---|
| Persistence and degradability             | May cause long-term adverse effects in the environment. |

| Solvent naphtha (petroleum), light arom., |   |
|---|---|
| Persistence and degradability             | May cause long-term adverse effects in the environment. |

#### 12.3. Bioaccumulative potential

| Solvent naphtha (petroleum), light arom., |                  |
|---|------------------|
| Bioaccumulative potential                 | Not established. |

| Solvent naphtha (petroleum), light arom., |                  |
|---|------------------|
| Bioaccumulative potential                 | Not established. |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on ozone layer : No additional information available  
Effect on the global warming : No known effects from this product.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Additional information : Flammable vapors may accumulate in the container.

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### SECTION 14: Transport information

In accordance with DOT

|                                |   |
|--------------------------------|---|
| Transport document description | : UN1263 Paint related material (including paint thinning, drying, removing, or reducing compound), 3, II |
| UN-No.(DOT)                    | : UN1263  |
| Proper Shipping Name (DOT)     | : Paint related material<br>including paint thinning, drying, removing, or reducing compound              |
| Class (DOT)                    | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120   |
| Hazard labels (DOT)            | : 3 - Flammable liquid  |



|  |  |
|--|--|
| Packing group (DOT)  | : II - Medium Danger   |
| DOT Special Provisions (49 CFR 172.102)                          | : 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons).<br>B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.<br>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.<br>T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)<br>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.<br>TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).<br>TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP. |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 150  |
| DOT Packaging Non Bulk (49 CFR 173.xxx)                          | : 173  |
| DOT Packaging Bulk (49 CFR 173.xxx)                              | : 242  |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 5 L  |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 60 L   |
| DOT Vessel Stowage Location                                      | : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.  |

### Additional information

Other information : No supplementary information available.

### ADR

|   |   |
|---|---|
| Transport document description            | : UN 1263 PAINT RELATED MATERIAL, 3, III, (D/E) |
| Packing group (ADR)                       | : III   |
| Class (ADR)                               | : 3 - Flammable liquid                          |
| Hazard identification number (Kemler No.) | : 30  |
| Classification code (ADR)                 | : F1  |
| Hazard labels (ADR)                       | : 3 - Flammable liquids                         |



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Orange plates



Tunnel restriction code (ADR) : D/E

LQ : 5I

Excepted quantities (ADR) : E1

### Transport by sea

UN-No. (IMDG) : 1263

Proper Shipping Name (IMDG) : PAINT RELATED MATERIAL

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : III - substances presenting low danger

### Air transport

UN-No. (IATA) : 1263

Proper Shipping Name (IATA) : Paint

Class (IATA) : 3 - Flammable Liquids

Packing group (IATA) : III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

|                             |                  |      |
|-----------------------------|------------------|------|
| hexamethylene-di-isocyanate | CAS-No. 822-06-0 | < 5% |
|-----------------------------|------------------|------|

#### Solvent naphtha (petroleum), light arom.,

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### HEXAMETHYLENE DIISOCYANATE OLIGOMERS (28182-81-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Solvent naphtha (petroleum), light arom.,

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226

Skin Sens. 1 H317

STOT SE 3 H335

STOT SE 3 H336

Aquatic Chronic 2 H411

Full text of hazard classes and H-statements : see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

### 15.2.2. National regulations

⋮

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

Revision date : 06/15/2017

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### Full text of H-phrases:

|      |   |
|------|---|
| H226 | Flammable liquid and vapor                      |
| H304 | May be fatal if swallowed and enters airways    |
| H317 | May cause an allergic skin reaction             |
| H332 | Harmful if inhaled                              |
| H335 | May cause respiratory irritation                |
| H336 | May cause drowsiness or dizziness               |
| H411 | Toxic to aquatic life with long lasting effects |

### NFPA health hazard

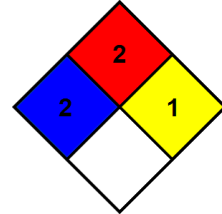
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

### NFPA fire hazard

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

### NFPA reactivity

: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



### SDS US UPOL

#### For professional use only.

The information contained within this Safety Data Sheet (SDS) is believed to be correct as of the date issued however it is subject to change from time to time. It does not purport to be all inclusive or exhaustive and shall only be used as a guide. U-POL makes no warranties, expressed or implied, including but not limited to, any implied warranty of fitness for a given purpose or usage. It is the Buyers responsibility to ensure the suitability of the products for their own use and to check the information is up to date. U-POL cannot be held responsible for the suitability of use for any of its products, considering the wide range of factors such as application, substrates and handling methods. Since these conditions of use are outside of our control, the company shall not be held liable for any damage resulting from handling or from contact with the product detailed. Moreover, addition of reducers, hardeners or other additives over and above U-POL's recommendations for use, may substantially alter the composition and hazards of the product. U-POL data sheets are available via the U-POL website at [WWW.U-POL.COM](http://WWW.U-POL.COM).