SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BYK-333
Product Use Description : Surface Additive

Company : BYK USA Inc.
          524 South Cherry Street
          Wallingford CT 06492

Prepared by : J.Nole, Safety; M.McCutcheon, Regulatory
Telephone : (203) 265-2086
Visit our web site : www.byk.com
E-mail address : ehs.byk.usa@altana.com
Emergency telephone number : CHEMTREC 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview
Form : liquid
Colour : light brown
Odour : not significant

OSHA Regulatory Status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for other users of this product.

Potential Health Effects
Eyes : Contact may cause irritation.
Skin : Contact may cause irritation.
Ingestion : Ingestion may irritate the digestive tract.
Inhalation : None expected.
Chronic Exposure : No known chronic health effects.
Aggravated Medical Condition : None expected
Primary Routes of Entry : Skin contact
                          Skin absorption
                          Inhalation
                          Eyes
                          Ingestion
Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Environmental Effects
Environmental Effects : No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature
Polyether modified polydimethylsiloxane

Hazardous components
No ingredients are hazardous according to HCS criteria.

SECTION 4. FIRST AID MEASURES

First aid procedures
Inhalation : Remove to fresh air. Administer artificial respiration if necessary. Get medical aid as soon as possible.

Skin contact : Remove contaminated clothing. Wash thoroughly with soap and water.

Eye contact : Immediately flush with plenty of water for at least 20 minutes. Get medical aid.

Ingestion : Do not induce vomiting; aspiration hazard. Dilute with 1-2 glasses of water. Get medical aid. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

Notes to physician
SECTION 5. FIRE-FIGHTING MEASURES

**Flammable properties**

Flash point : > 100 °C (> 212.00 °F)  
Method: 49 (Pensky-Martens)

Ignition temperature : > 200 °C (> 392 °F)  
Method: calculated

Suitable extinguishing media : Foam  
Carbon dioxide (CO2)  
Dry chemical

Unsuitable extinguishing media : No information available.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Specific hazards during firefighting : Cool closed containers exposed to fire with water spray.  
Will not explode on mechanical impact.

Hazardous decomposition products due to incomplete combustion. : Carbon oxides  
silicone compounds  
formaldehyde

Further information : Keep away from heat and sources of ignition.  
Keep away from oxidizing agents.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Eliminate all sources of ignition. Wear protective equipment: safety glasses, gloves and an appropriate respirator.

Environmental precautions : Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.

Methods for containment : Stop leak. Dike and contain spill.

Methods for cleaning up : Pump into salvage tanks and/or absorb with suitable material.  
Use sparkless shovels to remove material.

Additional advice : No further information is available.
SECTION 7. HANDLING AND STORAGE

Handling
Handling : Avoid contact with skin and eyes.
          Handle as an industrial chemical.
          Keep container tightly closed.
          Keep away from oxidizing agents.

Storage
Advice on common storage : Keep in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
Contains no substances with occupational exposure limit values.

Engineering measures
Engineering measures : Use with local exhaust ventilation.

Personal protective equipment
Eye protection : Safety Glasses
Hand protection : Protective gloves
Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection : Not necessary.
Hygiene measures : Clean long legged, long sleeved work clothes.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid
Colour : light brown
Odour : not significant
Odor Threshold : no data available
Flash point : > 100 °C (> 212.00 °F)
             Method: 49 (Pensky-Martens)
Ignition temperature : > 200 °C (> 392 °F)
Method: calculated

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
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<td>Lower explosion limit</td>
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<tr>
<td>Upper explosion limit</td>
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<td>pH</td>
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<td>Freezing point</td>
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<td>Initial boiling point</td>
<td>&gt; 200 °C (&gt; 392.00 °F)</td>
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<tr>
<td>Vapour pressure</td>
<td>&lt; 1.0000000 hPa at 20 °C (68.00 °F) Method: calculated</td>
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<tr>
<td>Evaporation rate</td>
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<tr>
<td>Density</td>
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<tr>
<td>Bulk density</td>
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<tr>
<td>Water solubility</td>
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<td>Partition coefficient: n-octanol/water</td>
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<td>Viscosity, kinematic</td>
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<td></td>
<td>at 40 °C (104.00 °F) no data available</td>
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<tr>
<td>Relative vapour density</td>
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</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: None known.
Materials to avoid: Strong oxidizing agents
Hazardous decomposition products: None expected
Chemical stability: Stable; polymerization will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product): LD50 rat
   Dose: > 8,000.000000 mg/kg
   Method: OECD Test Guideline 401

Skin irritation (Product): rabbit
   Result: No skin irritation
   Method: OECD Test Guideline 404
Eye irritation (Product) : rabbit
   Result: No eye irritation
   Method: OECD Test Guideline 405

Sensitisation (Product) : no data available

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information (Product) : There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Container sizes: 55 gallon drums, 5 or 6-gallon pails, 2oz/16oz samples)

   DOT  Not dangerous goods
   IATA Not dangerous goods
   IMDG_US Not dangerous goods

SECTION 15. REGULATORY INFORMATION

HMIS Classification : Health hazard: 0
   Flammability: 1
   Reactivity: 0
   PPI:B

National Fire Protection Association (NFPA) Class : IIIIB

Emergency Planning Community Right-To-Know (EPCRA)

SARA 302 Components : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

If listed below, this product contains toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.
SARA 311/312 Hazards : No SARA Hazards

Toxic Substances Control Act (TSCA)
TSCA Status : We certify that all of the components of this product are either listed on the TSCA Inventory or are not subject to the notification requirements (exempt)

Section 4 / 12(b) : Not applicable

Clean Air Act & Related Information

Non-volatile (Wt) : 97 - 100 %
Method: 51 (60min/105°C/ 1g)
DIN EN ISO 3251

Ozone Depleting Substances : Not applicable.

Non-volatile information is not a specification.

Hazardous Air Pollutants

If not listed above, this product does not contain HAPs at 1% or 0.1% or greater. Refer to Section 3 for HAP weight percentage.

Resource Conservation and Recovery Act

EPA Hazardous Waste Code(s) : Not applicable.

State Laws

Massachusetts Right To Know Components : No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components : No components are subject to the Pennsylvania Right to Know Act

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : 800963-5023

California Prop. 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Material Safety Data Sheet

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CONEG Heavy Metal: We certify that this product does not contain Lead, Mercury, Cadmium or hexavalent chromium in the sum concentration of 100 ppm by weight or greater.

Canadian Environmental Protection Act

Domestic Substances List

DSL Status : We certify that all of the components of this product are listed on the DSL.

WHMIS Classification : Not controlled

SECTION 16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release 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 or in any process, unless specified in the text.