

BYK-349

Version 5

Revision Date 02/04/2011

Print Date 02/04/2011

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BYK-349
Product Use Description : Substrate Wetting Additive

Company : BYK USA Inc.
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Wallingford CT 06492

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Emergency telephone number : CHEMTREC 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid
Colour : light brown
Odour : not significant

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR1910.1200)

Potential Health Effects

Eyes : Contact will probably cause irritation.

Skin : Contact will probably cause irritation.

Ingestion : Ingestion may irritate the digestive tract.

Inhalation : High concentrations of heated vapors may irritate the respiratory tract and mucous membranes.

Chronic Exposure : No known chronic health effects.

Aggravated Medical Condition : May be aggravating to some skin conditions
asthma-type conditions

Primary Routes of Entry : Inhalation
Ingestion
Eyes
Skin Absorption
Skin contact

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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 siloxane

Hazardous components

The specific chemical identity/weight percent of proprietary ingredient(s) is a trade secret

Component	CAS-No.	Weight percent
Polyether	-	10.00 - 30.00

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

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liquid into lungs. Never give anything by mouth to an unconscious person.

Notes to physician

Risks : No information available.

SECTION 5. FIRE-FIGHTING MEASURES**Flammable properties**

Flash point : > 100 °C (> 212 °F)
Method: 49 (Pensky-Martens)

Lower explosion limit : no data available

Upper explosion limit : no data available

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 fire fighting : Will not explode on mechanical impact.
Cool closed containers exposed to fire with water spray.

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

Further information : Keep away from oxidizing agents.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear protective equipment: goggles, chemically resistant clothing and gloves, and appropriate respirator if in a confined area.

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.

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Methods for cleaning up : Absorb with suitable material and remove with sparkless shovel and/or scoop.

Additional advice : No further information is available.

SECTION 7. HANDLING AND STORAGE**Handling**

Handling : Avoid contact with skin and eyes.
Keep container closed when not in use.
Handle as an industrial chemical.
Keep away from oxidizing agents.

Storage

Advice on common storage : Keep in a dry, cool and well-ventilated place.
Keep away from strong acids.
Keep away from strong bases.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines****Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
Polyether	-	TWA	10 mg/m ³		US AIHA WEEL

Engineering measures

Engineering measures : Use with local exhaust ventilation.

Personal protective equipment

Eye protection : Goggles
Safety glasses with side-shields

Hand protection : Neoprene gloves

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : If handling heated or misted product in a poorly ventilated area, wear a properly fitted respirator (NIOSH) during exposure.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Clean long legged, long sleeved work clothes.
If splashing is possible, wear chemically resistant protective clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid
Colour : light brown
Odour : not significant
Odor Threshold : no data available
Flash point : > 100 °C (> 212 °F)
Method: 49 (Pensky-Martens)

Ignition temperature : no data available
Lower explosion limit : no data available
Upper explosion limit : no data available
pH : no data available
Freezing point : no data available
Boiling point : no data available
Vapour pressure : no data available
Evaporation rate : no data available
Density : 1.037 g/cm³
at 20 °C (68 °F) (1,013 hPa)
Method: DIN EN ISO 2811-3

Bulk density : not applicable

Water solubility : completely miscible

Partition coefficient: n-octanol/water : no data available

Viscosity, dynamic : 100 mPa.s
at 20 °C (68 °F)
Method: 11 (NV, 20 °C)

at 40 °C (104 °F)
no data available

Viscosity, kinematic : 96.43 mm²/s
at 20 °C (68 °F)

Relative vapour density : no data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : None known.

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Materials to avoid : Acids
Bases
Strong oxidizing agents

Hazardous decomposition products : None expected

Chemical stability : Stable; polymerization will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product) : no data available

Acute oral toxicity (Component) : Component: - Polyether
LD50 rat
Dose: > 2,000 mg/kg

Acute dermal toxicity (Component) : Component: - Polyether
LD50 rabbit
Dose: > 2,000 mg/kg

Skin irritation (Product) : no data available

Skin irritation (Component) : Component: - Polyether
rabbit
Result: Moderate skin irritation

Eye irritation (Product) : no data available

Eye irritation(Component) : Component: - Polyether
rabbit
Result: Moderate eye irritation

Sensitisation (Product) : no data available

Further information (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.

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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: 2
Flammability: 1
Reactivity: 0
PPI:B**National Fire Protection Association (NFPA) Class** : IIIB**Emergency Planning Community Right-To-Know (EPCRA)****SARA 302 Components** : Not applicable

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 : Acute Health Hazard**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 per 40 CFR 720.30(h).

Section 4 / 12(b) : Not applicable

Clean Air Act & Related Information**Non-volatile (Wt)** : > 94 %
Method: 22 (10min/150°C)
DIN EN ISO 3251

Non-volatile information is not a specification.

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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 :
Polyether -

New Jersey Right To Know Components :
Polyether -

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : 800963-5237

California Prop. 65 Components : **WARNING: This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.**

Contains or Trace concentrations Ethylene oxide

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 : D2B

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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.