

**BYK-1745**

Version 1

Revision Date 02/15/2023

Print Date 01/06/2026

**SECTION 1. IDENTIFICATION**

Product name : BYK-1745

**Manufacturer or supplier's details**Company : BYK USA LLC  
524 South Cherry Street  
Wallingford CT 06492

Telephone : (203) 265-2086

Visit our web site : [www.byk.com](http://www.byk.com)E-mail address : [BRIEF.BYK.NAFTA@altana.com](mailto:BRIEF.BYK.NAFTA@altana.com)Emergency telephone : 203-265-2086; CHEMTREC 1-800-424-9300 / +1  
number 703-527-3887**Recommended use of the chemical and restrictions on use**

Recommended use : Defoamer

Restrictions on use : Refer to Section 15 for any restrictions that may apply

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Mixture of hydrophobic solids and foam destroying polymers,  
silicone free**Hazardous components**

Component	CAS-No.	Concentration (%)
Rapeseed oil	8002-13-9	>= 30 - < 60
Silica, amorphous	7631-86-9	>= 1 - < 5

**SECTION 4. FIRST AID MEASURES**

General advice : Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical  
advice.

If symptoms persist, call a physician.

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- In case of eye contact : Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : Carbon oxides  
Silicon oxides
- Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains.
- Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : No materials to be especially mentioned.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
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		(Form of exposure)	parameters / Permissible concentration	
Rapeseed oil	8002-13-9	TWA (mist - total)	10 mg/m <sup>3</sup>	NIOSH REL
Rapeseed oil		TWA (mist - respirable)	5 mg/m <sup>3</sup>	NIOSH REL
Silica, amorphous	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
Silica, amorphous		TWA (Dust)	80 mg/m <sup>3</sup> / %SiO <sub>2</sub> (Silica)	OSHA Z-3
Silica, amorphous		TWA	6 mg/m <sup>3</sup> (Silica)	NIOSH REL
Silica, amorphous		TWA (Respirable dust)	0.05 mg/m <sup>3</sup> (Silica)	NIOSH REL
Silica, amorphous		PEL (respirable)	0.05 mg/m <sup>3</sup>	OSHA CARC

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Material : PVC disposable gloves  
Break through time : > 120 min

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : suspension  
Colour : yellow, cloudy  
Odour : not significant  
Odour Threshold : No data available

pH : 6, Concentration: 1 % (68 °F (20 °C)) Method: Universal pH-value indicator

Melting point/freezing point : < 32 °F (< 0 °C)  
Method: derived

Initial boiling point : > 482 °F (> 250 °C)  
Method: derived

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Vapour pressure	:	1 hPa (68 °F (20 °C)) Method: derived
Flash point	:	> 302 °F (> 150 °C) Method: 49 (Pensky-Martens)
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Relative vapour density	:	No data available
Relative Density/Specific Gravity	:	No data available
Density	:	0.973 g/cm <sup>3</sup> (68 °F (20 °C)) Method: 4 deaerated (20°C oscillating U-tube)
Solubility(ies)	:	
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	> 392 °F (> 200 °C) Method: DIN 51794
Thermal decomposition	:	No data available
Viscosity	:	
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	No data available No data available

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Incompatible materials : Acids and bases  
Strong oxidizing agents  
Hazardous decomposition products : No data available

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Acute toxicity****Product:**

Acute oral toxicity : Remarks: No data available

**Components:****7631-86-9 Silica, amorphous:**

Acute oral toxicity : LD50 (Rat): &gt; 10,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 58.8 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes

**Skin corrosion/irritation****Product:**

Remarks: No data available

**Components:****7631-86-9 Silica, amorphous:**

Species: Rabbit

Result: No skin irritation

**Serious eye damage/eye irritation****Product:**

Remarks: No data available

**Components:****7631-86-9 Silica, amorphous:**

Species: Rabbit

Result: No eye irritation

**Respiratory or skin sensitisation****Product:**

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Remarks: No data available

**Germ cell mutagenicity****Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Carcinogenicity****Product:**

Remarks: No data available

**IARC**

Group 1: Carcinogenic to humans

Silica, amorphous

7631-86-9

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

Known to be human carcinogen

Silica, amorphous

7631-86-9

**Reproductive toxicity****Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

**STOT - single exposure****Product:**

Remarks: No data available

**STOT - repeated exposure****Product:**

Remarks: No data available

**Repeated dose toxicity****Product:**

Remarks: No data available

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**Aspiration toxicity****Product:**

No data available

**Further information****Product:**

Remarks: No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**Toxicity to fish :  
Remarks: No data availableToxicity to daphnia and other :  
aquatic invertebrates : Remarks: No data available**Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**Results of PBT and vPvB : This substance/mixture contains no components considered  
assessment : to be either persistent, bioaccumulative and toxic (PBT), or  
very persistent and very bioaccumulative (vPvB) at levels of  
0.1% or higher.Regulation : 40 CFR Protection of Environment; Part 82 Protection of  
Stratospheric Ozone - CAA Section 602 Class I SubstancesRemarks : This product neither contains, nor was manufactured with a  
Class I or Class II ODS as defined by the U.S. Clean Air Act  
Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological : No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****US. EPA CERCLA Hazardous Substances (40 CFR 302)**

This material does not contain any components with a CERCLA RQ.

**SARA 304 - Emergency Release Notification**

This material does not contain any components with a section 304 EHS RQ.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**

This material does not contain any components with a SARA 302 RQ.

**SARA 311/312 Hazards** : Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

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

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**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Polypropylene glycol	25322-69-4	25 %
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Non-volatile (Wt) : 99.7 %  
Method: 22 (10min/150°C)  
DIN EN ISO 3251

99.6 %  
Method: 51 (60min/105°C/ 1g)  
DIN EN ISO 3251

### Massachusetts Right To Know

Silica, amorphous	7631-86-9
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### Pennsylvania Right To Know

Rapeseed oil	8002-13-9
Polypropylene glycol	25322-69-4
Silica, amorphous	7631-86-9

### New Jersey Right To Know

**New Jersey Trade Secret Registry Number for the product (NJ TSRN)** : 800963-6355

### California Prop. 65

 **WARNING:** This product can expose you to chemicals including Silica, amorphous, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### The components of this product are reported in the following inventories:

TSCA : 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).

TSCA Inventory Active List : All components of this product are listed active and/or are exempt

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DSL

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

**SECTION 16. OTHER INFORMATION**

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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.