

BYK-081

Version 6

Revision Date 05/12/2022

Print Date 09/29/2022

SECTION 1. IDENTIFICATION

Product name : BYK-081

Manufacturer or supplier's details

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

Telephone : (203) 265-2086

Visit our web site : www.byk.com

E-mail address : 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 : Polyether / Polysiloxane mixture

Hazardous components

Component	CAS-No.	Concentration (%)
Silica, amorphous	7631-86-9	≥ 2 - < 3

SECTION 4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.

BYK-081

Version 6

Revision Date 05/12/2022

Print Date 09/29/2022

If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: Remove contaminated clothing. Wash thoroughly with soap and water. If irritation develops, get medical aid.
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 (CO2) Dry chemical
	Foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	: High volume water jet High volume water jet
Specific hazards during firefighting	: Will not explode on mechanical impact. Cool closed containers exposed to fire with water spray.
Hazardous combustion products	: Carbon oxides silicone compounds formaldehyde
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	: Use personal protective equipment.
--	--------------------------------------

BYK-081

Version 6

Revision Date 05/12/2022

Print Date 09/29/2022

emergency procedures

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Methods and materials for
containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.
Neutralize the spill with soda ash (sodium carbonate).

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 : Keep away from oxidizing agents.

No materials to be especially mentioned.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silica, amorphous	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
Silica, amorphous		TWA (Dust)	80 mg/m ³ / %SiO ₂ (Silica)	OSHA Z-3

Engineering measures : Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally
required.

Hand protection
Material : Impervious gloves

BYK-081

Version 6

Revision Date 05/12/2022

Print Date 09/29/2022

Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	: Safety glasses
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Protective suit
Hygiene measures	: General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: dispersion
Colour	: white, cloudy
Odour	: characteristic
Odour Threshold	: No data available
pH	: 7, Concentration: 1 % (68 °F (20 °C)) Method: Universal pH-value indicator
Melting point/range	: < 32 °F (< 0 °C) Method: derived
Initial boiling point	: > 212 °F (> 100 °C) Method: derived
Vapour pressure	: < 1.000 hPa (68 °F (20 °C)) Method: derived
Flash point	: > 212 °F (> 100 °C) Method: 49 (Pensky-Martens)
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Evaporation rate	: No data available
Relative vapour density	: No data available
Relative Density/Specific Gravity	: No data available
Density	: 1.059 g/cm ³ (68 °F (20 °C))

BYK-081

Version 6

Revision Date 05/12/2022

Print Date 09/29/2022

Method: 4 deaerated (20°C oscillating U-tube)

Bulk density : Not applicable

Solubility(ies)
Water solubility : immiscible

Solubility in other solvents : No data available

Partition coefficient: n-
octanol/water : No data availableIgnition temperature : > 392 °F (> 200 °C)
Method: M0062 (Analytics Wesel)

Thermal decomposition : No data available

Viscosity
Viscosity, dynamic : 2,624 mPa.s (68 °F (20 °C))
Method: P/K 20°C

Viscosity, kinematic : No data available

Surface tension : No data available

SECTION 10. STABILITY AND REACTIVITYReactivity : Not classified as a reactivity hazard.

No decomposition if stored and applied as directed.Chemical stability : Stable; polymerization will not occur

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

Stable under recommended storage conditions.
No hazards to be specially mentioned.

Conditions to avoid : No data available

Incompatible materials : Strong oxidizing agents

BYK-081

Version 6

Revision Date 05/12/2022

Print Date 09/29/2022

Hazardous decomposition : No decomposition if stored and applied as directed.
products

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation

Ingestion

Eyes

Skin Absorption

Skin contact

Acute toxicity**Product:**

Acute oral toxicity : Remarks: No data available

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

Acute oral toxicity : LD50 (Rat): > 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

BYK-081

Version 6

Revision Date 05/12/2022

Print Date 09/29/2022

Respiratory or skin sensitisation**Product:**

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

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 probable, possible or confirmed human carcinogen by IARC.

ACGIH

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.

OSHA

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

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

NTP

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 known or anticipated carcinogen by NTP.

Reproductive toxicity**Product:**

Effects on fertility : Remarks: No data available

Effects on foetal : Remarks: No data available

BYK-081

Version 6

Revision Date 05/12/2022

Print Date 09/29/2022

development

STOT - single exposure**Product:**

Remarks: No data available

STOT - repeated exposure**Product:**

Remarks: No data available

Repeated dose toxicity**Product:**

Remarks: No known chronic health effects.

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 available

Toxicity 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

BYK-081

Version 6

Revision Date 05/12/2022

Print Date 09/29/2022

Mobility in soil

No data available

Other adverse effects**Product:**

Results of PBT and vPvB assessment : This substance/mixture contains no components considered 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 Substances

Remarks 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 information : No data available

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

EPA Hazardous Waste Code(s) : Not applicable.

Waste from residues : Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

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

BYK-081

Version 6

Revision Date 05/12/2022

Print Date 09/29/2022

49 CFR

Not regulated as a dangerous good

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

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.

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).

Non-volatile (Wt) : 92.9 %
Method: 22 (10min/150°C)
DIN EN ISO 3251
Non-volatile information is not a specification.

Massachusetts Right To Know

BYK-081

Version 6

Revision Date 05/12/2022

Print Date 09/29/2022

Silica, amorphous	7631-86-9
Formaldehyde	50-00-0
Propylene oxide	75-56-9
1,4-Dioxane	123-91-1
Ethylene oxide	75-21-8

Pennsylvania Right To Know


Oxirane, Me, polymer with oxirane monobutyl ether (polyalkylene glycol)	9038-95-3
1,2-Propanediol	57-55-6
Silica, amorphous	7631-86-9

New Jersey Right To Know

Oxirane, Me, polymer with oxirane monobutyl ether (polyalkylene glycol)	9038-95-3
1,2-Propanediol	57-55-6
Silica, amorphous	7631-86-9
Polysiloxanes	-

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : 800963-5499

California Prop. 65

 **WARNING:** This product can expose you to chemicals including Formaldehyde, Propylene oxide, 1,4-Dioxane, Ethylene oxide, which is/are known to the State of California to cause cancer, and Ethylene oxide, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to 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
DSL	: We certify that all of the components of this product are listed on the DSL.

SECTION 16. OTHER INFORMATION

Revision Date : 05/12/2022

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

BYK-081

Version 6

Revision Date 05/12/2022

Print Date 09/29/2022

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.