

P50410

SAFETY DATA SHEET

**BYK-W 980**

Version 5

Revision Date 04/21/2016

Print Date 04/21/2016

SECTION 1. IDENTIFICATION

Product name : BYK-W 980

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 : ehs.byk.usa@altana.com

Emergency telephone number : 203-265-2086; CHEMTREC 1-800-424-9300 / +1 703-527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Wetting & Dispersing Additive

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

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 4

Skin irritation : Category 2

Specific target organ toxicity - repeated exposure : Category 2 (Kidney)

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H227 Combustible liquid.
H315 Causes skin irritation.
H373 May cause damage to organs (Kidney) through prolonged or repeated exposure.

Precautionary statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.

SAFETY DATA SHEET



BYK-W 980

Version 5

Revision Date 04/21/2016

Print Date 04/21/2016

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P314 Get medical advice/ attention if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Solution of a salt of unsaturated fatty acid polyamine amides and acidic polyesters

Hazardous components

HMIRA# 9961 Filing Date 04/21/2016

Component	CAS-No.	Concentration (%)
Polyamine amide salt	-	>= 79 - < 80
2-Butoxyethanol	111-76-2	>= 19 - < 20

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

SECTION 4. FIRST AID MEASURES

- If inhaled : Remove to fresh air. Get medical aid as soon as possible. If breathing has stopped, trained personnel should administer rescue breathing, and CPR if the heart has stopped.
- In case of skin contact : Remove contaminated clothing. Immediately flush contaminated skin w/water at least 20 min. Get medical aid as soon as possible.
If breathing has stopped, trained personnel should administer rescue breathing, and CPR if the heart has stopped.
- In case of eye contact : Immediately flush with plenty of water for at least 20 minutes. Get medical aid.

SAFETY DATA SHEET



BYK-W 980

Version 5

Revision Date 04/21/2016

Print Date 04/21/2016

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|---|--|
| If swallowed | : Do not induce vomiting. Dilute with 1-2 glasses of water. Get medical aid.
Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : No information available. |

SECTION 5. FIREFIGHTING MEASURES

- | | |
|---|--|
| Suitable extinguishing media | : Foam
Carbon dioxide (CO2)
Dry chemical |
| Unsuitable extinguishing media | : No information available. |
| Specific hazards during firefighting | : Cool closed containers exposed to fire with water spray.
Will not explode on mechanical impact. |
| Hazardous combustion products | : Carbon oxides
Nitrogen oxides (NOx) |
| Further information | : Keep away from heat and sources of ignition.
Keep away from oxidizing agents. |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Eliminate all sources of ignition. Ventilate area if indoors.
Wear self-contained breathing apparatus and full protective clothing. |
| Environmental precautions | : Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods. |
| Methods and materials for containment and cleaning up | : Stop leak. Dike and contain spill.
Pump into salvage tanks and/or absorb with suitable material.
Use sparkless shovels to remove material. |

SECTION 7. HANDLING AND STORAGE

- | | |
|-------------------------|--|
| Advice on safe handling | : Harmful in contact with skin.
Avoid contact with skin and eyes.
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. |
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SAFETY DATA SHEET



BYK-W 980

Version 5

Revision Date 04/21/2016

Print Date 04/21/2016

- Handle as an industrial chemical.
Keep container tightly closed.
- Conditions for safe storage : Keep in a dry, cool and well-ventilated place.
Keep product and empty container away from heat and sources of ignition.
Take measures to prevent the build up of electrostatic charge.
- Materials to avoid : Keep away from strong bases.
Keep away from oxidizing agents.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-Butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	50 ppm 240 mg/m3	OSHA Z-1

- Engineering measures : Use with local exhaust ventilation.

Personal protective equipment

- Respiratory protection : Unless air monitoring demonstrates vapor/mist/dust levels are below the PEL/TLV wear a properly fitted respirator (NIOSH approved) or dust mask during exposure.
- Hand protection
Material : Impervious butyl rubber gloves
- Eye protection : Safety Glasses
Goggles
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- 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

- Appearance : liquid
- Colour : brown

SAFETY DATA SHEET



BYK-W 980

Version 5

Revision Date 04/21/2016

Print Date 04/21/2016

Odour	: alcohol-like
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: < 64 °F (< 18 °C) Method: see user defined free text
Initial boiling point and boiling range	: 278.60 °F (137.00 °C) Method: see user defined free text
Flash point	: 150.80 °F (66.00 °C) Method: 49 (Pensky-Martens)
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: 10.60 %(V)
Lower explosion limit	: 1.00 %(V)
Vapour pressure	: 1.0000000 hPa (68.00 °F (20.00 °C)) Method: calculated
Relative vapour density	: No data available
Relative Density/Specific Gravity	: No data available
Density	: 0.9900 g/cm3 (68.00 °F (20.00 °C)) Method: 4 (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 available
Auto-ignition temperature	: > 392 °F (> 200 °C) Method: DIN 51794

SAFETY DATA SHEET



BYK-W 980

Version 5

Revision Date 04/21/2016

Print Date 04/21/2016

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Surface tension : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable; polymerization will not occur

Possibility of hazardous reactions : No data available

Conditions to avoid : None known.

Incompatible materials : Strong oxidizing agents
Alkalis

Hazardous decomposition products : None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact

Skin absorption

Inhalation

Eyes

Ingestion

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): 6,750 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

SAFETY DATA SHEET



BYK-W 980

Version 5

Revision Date 04/21/2016

Print Date 04/21/2016

Components:

111-76-2 2-Butoxyethanol:

Acute oral toxicity : LD50 (Rat): 530 mg/kg
LD50 (Rabbit): 520 mg/kg

Acute inhalation toxicity : LC50 (Rat): 468 ppm
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): 220 mg/kg
LD50 (Rabbit): 100 mg/kg

Skin corrosion/irritation

Product:

Species: Rabbit
Assessment: Irritating to skin.
Method: Draize Test
Result: Skin irritation

Components:

111-76-2 2-Butoxyethanol:

Species: Rabbit
Result: Moderate skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit
Result: No eye irritation
Assessment: No eye irritation
Method: Draize Test

Components:

111-76-2 2-Butoxyethanol:

Species: Rabbit
Result: Eye irritation
Method: OECD Test Guideline 405
GLP: yes

Respiratory or skin sensitisation

Product:

Remarks: No data available

SAFETY DATA SHEET



BYK-W 980

Version 5

Revision Date 04/21/2016

Print Date 04/21/2016

Components:

111-76-2 2-Butoxyethanol:

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

GLP: yes

Carcinogenicity

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 identified as a carcinogen or potential carcinogen by OSHA.

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.

Repeated dose toxicity

Product:

Remarks: Absorption of 2-Butoxyethanol by inhalation and/or repeated skin contact may cause injury to liver, kidney and blood damage.

2-Butoxyethanol is considered fetotoxic; has caused toxic reproductive effects in laboratory animals at maternally toxic doses.

2-Butoxyethanol had both positive and negative results in in vitro mutagenicity studies.

In a 2 yr. cancer study, the NTP has determined 2-butoxyethanol has a potential to cause cancer (potentially carcinogenic to mice) but there is not enough evidence to list 2-butoxyethanol as a carcinogen. The relevance to humans is unknown.

Experience with human exposure

Product:

Inhalation:

Symptoms:

High concentrations of vapors may be irritating to the respiratory tract. May cause headaches, dizziness, nausea and vomiting. May cause CNS depression (drowsiness, loss of coordination and fatigue).

SAFETY DATA SHEET



BYK-W 980

Version 5

Revision Date 04/21/2016

Print Date 04/21/2016

Skin contact:

Symptoms:

Contact will probably cause irritation.

Eye contact:

Symptoms:

Contact will probably cause irritation.

Ingestion:

Symptoms:

Ingestion may irritate the digestive tract; high dosages may cause CNS depression.

Further Information

Product:

Remarks: Absorption of 2-Butoxyethanol may cause acute red blood cell damage and kidney effects. Inhalation of 2-Butoxyethanol has damaged the kidneys of laboratory animals. OSHA PEL-TWA for 2-butoxyethanol = 50 ppm (skin)

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

: LC50 (Leuciscus idus (Golden orfe)): 70.000000 mg/l
Exposure time: 48.0 h
Remarks: active ingredient

Components:

- Polyamine amide salt:

Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): > 48 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 30 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Persistence and degradability

Product:

Biodegradability

: Result: Readily biodegradable
Biodegradation: 88.000000 %
Remarks: active ingredient

SAFETY DATA SHEET



BYK-W 980

Version 5

Revision Date 04/21/2016

Print Date 04/21/2016

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

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).

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.

SECTION 14. TRANSPORT INFORMATION

International Regulation

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

SAFETY DATA SHEET



BYK-W 980

Version 5

Revision Date 04/21/2016

Print Date 04/21/2016

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

: Acute Health Hazard
Chronic Health Hazard
Fire Hazard

SARA 302

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

SARA 313

: This product contains the following 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.

2-Butoxyethanol

111-76-2

19.9 %

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)

: 78 - 82 %
Method: 22 (10min/150°C)
DIN EN ISO 3251
Non-volatile information is not a specification.

Massachusetts Right To Know

2-Butoxyethanol

111-76-2

Pennsylvania Right To Know

SAFETY DATA SHEET



BYK-W 980

Version 5

Revision Date 04/21/2016

Print Date 04/21/2016

Polyamine amide salt	-
2-Butoxyethanol	111-76-2

New Jersey Right To Know

Polyamine amide salt	-
2-Butoxyethanol	111-76-2

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : 800963-5039

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

CONEG Heavy Metal: We confirm that we use packaging and/or packaging components in which the sum of the incidental concentration levels of lead, mercury, cadmium and hexavalent chromium do not exceed 100 parts per million by weight.

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).
Section 4 / 12(b)	: Not applicable
DSL	: We certify that all of the components of this product are listed on the DSL.

SECTION 16. OTHER INFORMATION

Revision Date : 04/21/2016

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.