

BYK GS-55

Version 1

Revision Date 05/17/2026

Print Date 08/06/2026

SECTION 1. IDENTIFICATION

Product name : BYK GS-55

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

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 4

Skin sensitisation : Category 1

Carcinogenicity : Category 1A

Specific target organ toxicity : Category 3 (Central nervous system)
- single exposure

Aspiration hazard : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H227 Combustible liquid.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H350 May cause cancer.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.

BYK GS-55

Version 1

Revision Date 05/17/2026

Print Date 08/06/2026

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P331 Do NOT induce vomiting.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

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

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

P405 Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : phenol-formaldehyde resin

Hazardous components

Component	CAS-No.	Concentration (%)
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	>= 20 - < 30
Naphthalene	91-20-3	>= 1 - < 5
Formaldehyde	50-00-0	>= 0.1 - < 1

BYK GS-55

Version 1

Revision Date 05/17/2026

Print Date 08/06/2026

SECTION 4. FIRST AID MEASURES

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| General advice | : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended. |
| If inhaled | : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice. |
| In case of skin contact | : If on skin, rinse well with water.
If on clothes, remove clothes. |
| In case of eye contact | : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital. |
| Notes to physician | : No information available. |

SECTION 5. FIREFIGHTING MEASURES

- | | |
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| Suitable extinguishing media | : Carbon dioxide (CO ₂)
Dry chemical |
| Unsuitable extinguishing media | : High volume water jet |
| Specific hazards during firefighting | : Carbon oxides |
| Hazardous combustion products | : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). |
| Further information | : For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
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| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.
Ensure adequate ventilation. |
| Environmental precautions | : Prevent product from entering drains. |

BYK GS-55

Version 1

Revision Date 05/17/2026

Print Date 08/06/2026

Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : No smoking.
Keep in a well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Naphthalene	91-20-3	TWA	10 ppm	ACGIH
Naphthalene		TWA	10 ppm 50 mg/m ³	OSHA Z-1
Naphthalene		TWA	10 ppm 50 mg/m ³	OSHA P0
Naphthalene		STEL	15 ppm 75 mg/m ³	OSHA P0
Formaldehyde	50-00-0	C	0.3 ppm	ACGIH
Formaldehyde		TWA	0.75 ppm	OSHA Z-1
Formaldehyde		STEL	2 ppm	OSHA Z-2

Hazardous components without workplace control parameters

BYK GS-55

Version 1

Revision Date 05/17/2026

Print Date 08/06/2026

Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hand protection
Material : Impervious gloves
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : liquid
- Colour : amber
- Odour : aromatic
- Odour Threshold : No data available
- pH : No data available
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : 390 °F (199 °C)
- Vapour pressure : No data available
- Flash point : 162.5 °F (72.5 °C)
Method: Tag closed cup
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Relative Density/Specific Gravity : No data available
- Density : 1.0515 g/cm³ (68 °F (20 °C))
- Solubility(ies)
Water solubility : negligible

BYK GS-55

Version 1

Revision Date 05/17/2026

Print Date 08/06/2026

Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: 1,500 mPa.s (77 °F (25 °C))
Viscosity, kinematic	: No data available
Surface tension	: 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	: No decomposition if stored and applied as directed.
	Vapours may form explosive mixture with air.
Conditions to avoid	: Keep away from open flames, hot surfaces and sources of ignition. Heat, flames and sparks.
Incompatible materials	: Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products	: No decomposition if stored and applied as directed.

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

Inhalation
Ingestion
Eye contact
Skin contact

Acute toxicity**Product:**

Acute oral toxicity	: Acute toxicity estimate : 4,290 mg/kg Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method

BYK GS-55

Version 1

Revision Date 05/17/2026

Print Date 08/06/2026

Components:**64742-94-5 Solvent naphtha (petroleum), heavy aromatic:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 100 mg/l

Acute dermal toxicity : LD50 (Rabbit): > 2,500 mg/kg

91-20-3 Naphthalene:

Acute oral toxicity : LD50 (Mouse): 316 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 340 ppm
Exposure time: 1.00 h

Acute dermal toxicity : LD50 (Rat): > 2,500 mg/kg

Skin corrosion/irritation**Product:**

Remarks: No data available

Components:**91-20-3 Naphthalene:**

Species: Rabbit

Method: Draize Test

Result: Severe skin irritation

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

Remarks: No data available

Components:**91-20-3 Naphthalene:**

Species: Rabbit

Result: Mild eye irritation

Method: Draize Test

Respiratory or skin sensitisation**Product:**

Remarks: Causes sensitisation.

Components:**64742-94-5 Solvent naphtha (petroleum), heavy aromatic:**

Test Type: Maximisation Test

Exposure routes: Skin contact

Species: Guinea pig

BYK GS-55

Version 1

Revision Date 05/17/2026

Print Date 08/06/2026

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: No information available.

Carcinogenicity**IARC**

Group 2B: Possibly carcinogenic to humans

Naphthalene 91-20-3

Group 1: Carcinogenic to humans

Formaldehyde 50-00-0

OSHA

OSHA specifically regulated carcinogen

Formaldehyde 50-00-0

NTP

Reasonably anticipated to be a human carcinogen

Naphthalene 91-20-3

Known to be human carcinogen

Formaldehyde 50-00-0

Further information**Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

BYK GS-55

Version 1

Revision Date 05/17/2026

Print Date 08/06/2026

Product:

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

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

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

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Alkyl (C3-C5) benzenes, naphthalene)

Class : 9

Packing group : III

Labels : Miscellaneous Dangerous Goods

Packing instruction (cargo aircraft) : 964

Packing instruction (passenger aircraft) : 964

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Alkyl (C3-C5) benzenes, naphthalene)

:)

Class : 9

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Marine pollutant : yes

BYK GS-55

Version 1

Revision Date 05/17/2026

Print Date 08/06/2026

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**

UN/ID/NA number : NA 1993
Proper shipping name : Combustible liquid, n.o.s.
(Alkyl (C3-C5) benzenes, naphthalene)
Class : CBL
Packing group : III
Labels : Combustible liquid
Marine pollutant : yes (Alkyl (C3-C5) benzenesnaphthalene)

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

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Naphthalene	91-20-3	100	2703

SARA 304 - Emergency Release Notification

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Formaldehyde	50-00-0	100	33333

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

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Formaldehyde	50-00-0	100	33333

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 : The following components are subject to reporting levels established by SARA Title III, Section 302:

Formaldehyde 50-00-0 .3 %

BYK GS-55

Version 1

Revision Date 05/17/2026

Print Date 08/06/2026

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.

Naphthalene	91-20-3	3.7 %
Formaldehyde	50-00-0	.3 %

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

Naphthalene	91-20-3	3.7 %
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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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Massachusetts Right To Know

Naphthalene	91-20-3
Formaldehyde	50-00-0

Pennsylvania Right To Know

Polymer	-
Solvent naphtha (petroleum), heavy aromatic	64742-94-5
Naphthalene	91-20-3
Formaldehyde	50-00-0

New Jersey Right To Know

New Jersey Trade Secret Registry Number for the product (NJ TSNR) : 800963-6015

California Prop. 65

 **WARNING:** This product can expose you to chemicals including Naphthalene, Formaldehyde, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

TSCA	: All substances listed as active on the TSCA inventory
Section 5a	: No substances are subject to a Significant New Use Rule.
Section 4 / 12(b)	: No substances are subject to TSCA 12(b) export notification requirements.

BYK GS-55

Version 1

Revision Date 05/17/2026

Print Date 08/06/2026

DSL

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

SECTION 16. OTHER INFORMATION

Revision Date : 05/17/2026

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.