

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

SECTION 1. IDENTIFICATION

Product name : BYK-354

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 : Acrylic Leveling Additive

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

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 3

Carcinogenicity : Category 2

Specific target organ toxicity : Category 3 (Respiratory system, Central nervous system)
- single exposure**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.
P281 Use personal protective equipment as required.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

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

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

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 : Solution of a polyacrylate

Hazardous components

Component	CAS-No.	Concentration (%)
Solvent naphtha, petroleum, light aromatic	64742-95-6	>= 44 - < 45
2,6-Dimethylheptan-4-one	108-83-8	>= 3 - < 4
4,6-Dimethyl-2-heptanone	19549-80-5	>= 1 - < 2

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Remove to fresh air. Administer artificial respiration if necessary. Get medical aid as soon as possible.
- Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Remove contaminated clothing. Wash thoroughly with soap and water.
- If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush with plenty of water for at least 20 minutes. Get medical aid.
- 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 : Do not induce vomiting. Dilute with 1-2 glasses of water. Get medical aid.
Never give anything by mouth to an unconscious person.
- 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.
Take victim immediately to hospital.
- 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
- Alcohol-resistant foam

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

	Carbon dioxide (CO ₂) Dry chemical
Unsuitable extinguishing media	: No information available.
	High volume water jet
Specific hazards during firefighting	: Cool closed containers exposed to fire with water spray. Will not explode on mechanical impact. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: Carbon oxides
Further information	: Keep away from heat and sources of ignition. Keep away from oxidizing agents. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. 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	: In the event of fire, wear self-contained breathing apparatus. Wear self-contained breathing apparatus for firefighting if necessary.

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. : Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions	: Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods. Prevent product from entering drains.

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

Methods and materials for
containment and cleaning up

- Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform
respective authorities.
- : Stop leak. Dike and contain spill.
Pump into salvage tanks and/or absorb with suitable material.
Use sparkless shovels to remove material.
- 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).

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.
Handle as an industrial chemical.
Keep container tightly closed.
- Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the
application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national
regulations.

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.
- No smoking.
Keep container tightly closed in a dry and well-ventilated
place.
Containers which are opened must be carefully resealed and
kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with
the technological safety standards.

Materials to avoid

- : Keep away from strong acids.
Keep away from oxidizing agents.

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2,6-Dimethylheptan-4-one	108-83-8	TWA	25 ppm	ACGIH
2,6-Dimethylheptan-4-one		TWA	50 ppm 290 mg/m ³	OSHA Z-1

Hazardous components without workplace control parameters

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.

In the case of vapour formation use a respirator with an approved filter.

Hand protection
Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : > 0.4 mm
 Viton

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety Glasses
 Goggles
 Eye wash bottle with pure water
 Tightly fitting safety goggles

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 Impervious clothing
 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.
 When using do not eat or drink.
 When using do not smoke.
 Wash hands before breaks and at the end of workday.

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: colourless
Odour	: not significant
Odour Threshold	: No data available
pH	: 5, Concentration: 1 % (68 °F (20 °C)) Method: Universal pH-value indicator
Melting point/range	: No data available
Initial boiling point	: 320.00 °F (160.00 °C)
Vapour pressure	: 4.0000000 hPa (68.00 °F (20.00 °C)) Method: calculated
Flash point	: 113.00 °F (45.00 °C) Method: 48 (Abel-Pensky)
Upper explosion limit	: 7.50 %(V)
Lower explosion limit	: 1.00 %(V)
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	: 0.9480 g/cm ³ (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

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: 581.00 °F (305.00 °C) Method: calculated
Thermal decomposition	: No data available
Viscosity	
Viscosity, kinematic	: 398.000 mm ² /s (68.00 °F (20.00 °C)) 262 mm ² /s (104.00 °F (40.00 °C))
Surface tension	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: 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 No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to avoid	: None known. Heat, flames and sparks.
Incompatible materials	: Acids Strong oxidizing agents
Hazardous decomposition products	: None expected

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

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

Skin contact
Skin Absorption
Inhalation
Eyes
Ingestion

Acute toxicity**Product:**

Acute oral toxicity : Remarks: No data available

Components:**64742-95-6 Solvent naphtha, petroleum, light aromatic:**

Acute oral toxicity : LD50 (Rat): > 4,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 3670 ppm
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 3,480 mg/kg

108-83-8 2,6-Dimethylheptan-4-one:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 14 mg/l
Method: OECD Test Guideline 403
GLP: no

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Skin corrosion/irritation**Product:**

Remarks: No data available

Components:**64742-95-6 Solvent naphtha, petroleum, light aromatic:**

Species: Rabbit
Result: Moderate skin irritation

108-83-8 2,6-Dimethylheptan-4-one:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

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

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:**64742-95-6 Solvent naphtha, petroleum, light aromatic:**

Species: Rabbit

Result: Eye irritation

108-83-8 2,6-Dimethylheptan-4-one:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

GLP: no

Respiratory or skin sensitisation**Product:**

Remarks: No data available

Components:**64742-95-6 Solvent naphtha, petroleum, light aromatic:**

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

108-83-8 2,6-Dimethylheptan-4-one:

Test Type: Maximisation Test

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: yes

Carcinogenicity**IARC**

Group 2B: Possibly carcinogenic to humans

Cumene

98-82-8

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

Reasonably anticipated to be a human carcinogen

Cumene

98-82-8

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

Repeated dose toxicity**Product:**

Remarks: Absorption of ingredients (solvents) by inhalation and/or repeated skin contact may cause injury to the liver/kidney.

Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage.

Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Inhalation of Naphtha has caused fetotoxic effects at maternally toxic doses in laboratory animals.

Cumene is an IARC 2B and NTP Group 2 Carcinogen. Cumene has caused tumors in rats and mice (lung, liver and kidney). Proposed cancer causing mechanisms for lung and liver tumors are similar to human metabolic pathways. The relevance of kidney tumors in humans is uncertain.

Aspiration toxicity**Components:****64742-95-6 Solvent naphtha, petroleum, light aromatic:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

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).

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.

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

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****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

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 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 : There is no data available for this product.
information

No data available

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- EPA Hazardous Waste Code(s) : D001: Ignitable
D018: Benzene
- Waste from residues : Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.
- 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 1993
- Proper shipping name : Flammable liquid, n.o.s.
(Solvent naphtha, Diisobutyl ketone)
- Class : 3
- Packing group : III
- Labels : Flammable Liquids
- Packing instruction (cargo aircraft) : 366
- Packing instruction (passenger aircraft) : 355

IMDG-Code

- UN number : UN 1993
- Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(SOLVENT NAPHTHA, Diisobutyl ketone)
- :)
- Class : 3
- Packing group : III
- Labels : 3
- EmS Code : F-E, S-E
- Marine pollutant : yes
- Remarks : IMDG Code segregation group - none

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

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 : UN 1993
Proper shipping name : Flammable liquids, n.o.s.
(Solvent naphtha, Diisobutyl ketone)
Class : 3
Packing group : III
Labels : FLAMMABLE LIQUID
ERG Code : 128
Marine pollutant : no
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 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.

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

1,2,4-Trimethylbenzene	95-63-6	15 %
Cumene	98-82-8	1.1 %

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).

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

Non-volatile (Wt) : 50 - 52 %
Method: 23 (20min/150°C)
DIN EN ISO 3251
Non-volatile information is not a specification.

Massachusetts Right To Know

2,6-Dimethylheptan-4-one	108-83-8
Cumene	98-82-8

Pennsylvania Right To Know


Polyacrylate	-
Solvent naphtha, petroleum, light aromatic	64742-95-6
2,6-Dimethylheptan-4-one	108-83-8
Cumene	98-82-8
Naphthalene	91-20-3
Ethyl benzene	100-41-4

New Jersey Right To Know

Polyacrylate	-
Solvent naphtha, petroleum, light aromatic	64742-95-6
2,6-Dimethylheptan-4-one	108-83-8
4,6-Dimethyl-2-heptanone	19549-80-5
Cumene	98-82-8

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : 800963-5491

California Prop. 65

 **WARNING:** This product can expose you to chemicals including Cumene, Naphthalene, Ethyl

BYK-354

Version 8

Revision Date 08/20/2021

Print Date 09/29/2022

benzene, Benzene, which is/are known to the State of California to cause cancer, and Toluene, Benzene, 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).
Section 4 / 12(b)	: Not applicable
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 : 08/20/2021

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.