

P50650

SAFETY DATA SHEET

**BYK-A 560**

Version 6

Revision Date 06/15/2016

Print Date 06/17/2016

SECTION 1. IDENTIFICATION

Product name : BYK-A 560

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 : Air Release Additive

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

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 3

Eye irritation : Category 2A

Reproductive toxicity : Category 2

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

Aspiration hazard : Category 1

Carcinogenicity : **Category 2****GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

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Precautionary statements

H361 Suspected of damaging fertility or the unborn child.
H350 May cause cancer.

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. 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.
P264 Wash skin thoroughly after handling.
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.
P223 Do not allow contact with water.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
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.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P337 + P313 If eye irritation persists: 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.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Solution of foam destroying polyacrylates and polymers, silicone free

Hazardous components

Component	CAS-No.	Concentration (%)
Solvent naphtha, petroleum, light aromatic	64742-95-6	>= 75 - < 76
Naphtha, petroleum, hydrosulfurized heavy	64742-82-1	>= 3 - < 4
Stoddard Solvent (Mineral spirits)	8052-41-3	>= 3 - < 4
1-Methoxy-2-propanol acetate	108-65-6	>= 2 - < 3
Hydroxy acetic acid butyl ester (Butyl glycolate)	7397-62-8	>= 0 - < 1
Cumene	98-82-8	>= 1 - < 2

SECTION 4. FIRST AID MEASURES

If inhaled : Remove to fresh air. Administer artificial respiration if necessary. Get medical aid as soon as possible.

In case of skin contact : Remove contaminated clothing. Wash thoroughly with soap and water.

In case of eye contact : Immediately flush with plenty of water for at least 20 minutes. Get medical aid.

If swallowed : Do not induce vomiting; aspiration hazard. Dilute with 1-2 glasses of water. Get medical aid. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. 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.

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|---|--|
| Specific hazards during firefighting | : Cool closed containers exposed to fire with water spray.
Will not explode on mechanical impact. |
| Hazardous combustion products | : Carbon oxides |
| 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.
Ensure all equipment is electrically grounded before beginning transfer operations.
Containers should be grounded when being emptied.
Vapours may travel to areas away from work site before igniting/flashing back to Vapour source.
Handle as an industrial chemical.
Keep container tightly closed. |
| Conditions for safe storage | : Avoid exposure to excessive heat, light, and air for prolonged periods of time.
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 acids.
Keep away from strong bases.
Keep away from oxidizing agents. |

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Stoddard Solvent (Mineral spirits)	8052-41-3	TWA	100 ppm	ACGIH
		TWA	500 ppm 2,900 mg/m3	OSHA Z-1
		TWA	100 ppm 525 mg/m3	OSHA P0
1-Methoxy-2-propanol acetate	108-65-6	TWA	50 ppm	US WEEL
		PEL	100 ppm 541 mg/m3	CAL PEL
		STEL	150 ppm 811 mg/m3	CAL PEL
Cumene	98-82-8	TWA	50 ppm	ACGIH
		TWA	50 ppm 245 mg/m3	OSHA Z-1
		TWA	50 ppm 245 mg/m3	OSHA P0

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 : Nitrile rubber

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.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: clear
Odour	: characteristic
Odour Threshold	: No data available
pH	: No data available
Melting point/range	: < 32 °F (< 0 °C) Method: see user defined free text
Initial boiling point	: 291.20 °F (144.00 °C) Method: see user defined free text
Vapour pressure	: 4.0000000 hPa (68.00 °F (20.00 °C)) Method: calculated
Flash point	: 109.40 °F (43.00 °C) Method: 48 (Abel-Pensky)
Upper explosion limit	: 10.80 %(V)
Lower explosion limit	: 0.60 %(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	: 0.8700 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-	: No data available

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octanol/water

Auto-ignition temperature : > 392 °F (> 200 °C)
Method: DIN 51794

Thermal decomposition : No data available

Viscosity
Viscosity, kinematic : 5 mm²/s (104.00 °F (40.00 °C))

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 : 1-Methoxy-2-propanol acetate may form peroxides of unknown stability.

Conditions to avoid : Prolonged heat/light/air exposure

Incompatible materials : Acids
Strong oxidizing agents
Alkalis

Hazardous decomposition products : None expected

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact
Skin absorption
Inhalation
Eyes
Ingestion

Acute toxicity

Product:

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

Components:

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

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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

64742-82-1 Naphtha, petroleum, hydrosulfurized heavy:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 11.6 mg/l

Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg

8052-41-3 Stoddard Solvent (Mineral spirits):

Acute oral toxicity : LD50 (Rat): > 6,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5,500 mg/m3
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg

108-65-6 1-Methoxy-2-propanol acetate:

Acute oral toxicity : LD50 (Rat, female): 5,155 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 100 ppm
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

7397-62-8 Hydroxy acetic acid butyl ester (Butyl glycolate):

Acute oral toxicity : LD50 (Rat): 4,595 mg/kg

98-82-8 Cumene:

Acute oral toxicity : LD50 (Rat): 1,400 mg/kg

Acute inhalation toxicity : LC50 : Remarks: No data available

Acute dermal toxicity : LD50 : Remarks: No data available

Skin corrosion/irritation

Product:

Remarks: No data available

Components:

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

Species: Rabbit

Result: Moderate skin irritation

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64742-82-1 Naphtha, petroleum, hydrodesulfurized heavy:

Species: Rabbit

Result: Moderate skin irritation

8052-41-3 Stoddard Solvent (Mineral spirits):

Species: Rabbit

Result: Moderate skin irritation

7397-62-8 Hydroxy acetic acid butyl ester (Butyl glycolate):

Species: Rabbit

Result: Moderate skin irritation

Serious eye damage/eye irritation

Product:

Remarks: No data available

Components:

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

Species: Rabbit

Result: Eye irritation

64742-82-1 Naphtha, petroleum, hydrodesulfurized heavy:

Species: Rabbit

Result: Eye irritation

8052-41-3 Stoddard Solvent (Mineral spirits):

Species: Rabbit

Result: Eye irritation

7397-62-8 Hydroxy acetic acid butyl ester (Butyl glycolate):

Species: Rabbit

Result: Corrosive to eyes

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.

7397-62-8 Hydroxy acetic acid butyl ester (Butyl glycolate):

Test Type: Maximisation Test

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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 ingredients (solvents) by inhalation and/or repeated skin contact has caused injury to liver, kidney, brain, respiratory system, blood, and/or bone marrow in laboratory animals
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

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : 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 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

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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

: There is no data available for this product.

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.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

UN/ID No.

: UN 1268

Proper shipping name

: Petroleum distillates, n.o.s.

Class

: 3

Packing group

: III

Labels

: Flammable liquid

Packing instruction (cargo aircraft)

: 366

Packing instruction (passenger aircraft)

: 355

IMDG-Code

UN number

: UN 1268

Proper shipping name

: PETROLEUM DISTILLATES, N.O.S.

Class

: 3

Packing group

: III

Labels

: 3

EmS Code

: F-E, S-E

Marine pollutant

: yes

Remarks

: IMDG Code segregation group - none

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

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UN/ID/NA number : UN 1268
Proper shipping name : Petroleum distillates, n.o.s.
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)

Calculated RQ exceeds reasonably attainable upper limit.

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.

1,2,4-Trimethylbenzene	95-63-6	27 %
Cumene	98-82-8	1.9 %

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):
Cumene 98-82-8 1.9 %

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).

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Non-volatile (Wt) : 10 - 14 %
Method: 22 (10min/150°C)
DIN EN ISO 3251
Non-volatile information is not a specification.

Massachusetts Right To Know

Cumene 98-82-8

Pennsylvania Right To Know

Solvent naphtha, petroleum, light aromatic 64742-95-6
Naphtha, petroleum, hydrodesulfurized 64742-82-1
heavy
Polymer -
Cumene 98-82-8

New Jersey Right To Know

Solvent naphtha, petroleum, light aromatic 64742-95-6
Naphtha, petroleum, hydrodesulfurized 64742-82-1
heavy
Polymer -
Polyacrylate -
1-Methoxy-2-propanol acetate 108-65-6
Cumene 98-82-8

**New Jersey Trade Secret
Registry Number for the
product (NJ TSRN)** : 800963-5264

California Prop 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Benzene 71-43-2
Toluene 108-88-3

WARNING! This product contains a chemical known to the State of California to cause cancer.

Benzene 71-43-2
Naphthalene 91-20-3
Ethylbenzene 100-41-4
1,4-Dioxane 123-91-1
Cumene 98-82-8

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).

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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

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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.