

BYK-052

Version 1

Revision Date 11/05/2008

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BYK-052
Product Use Description : Defoamer

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

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Emergency telephone : CHEMTREC 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid
Colour : colourless
Odour : hydrocarbon-like

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR1910.1200)

Potential Health Effects

Eyes : Contact with liquid or vapor may cause irritation.

Skin : Contact may cause irritation.

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

Inhalation : High concentrations of vapors may be irritating to the respiratory tract. May cause CNS depression (drowsiness, loss of coordination and fatigue); narcosis.

Other Acute Effects : 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)

Chronic Exposure : 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.

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2-Butoxyethanol had both positive and negative results in in vitro mutagenicity studies.
 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.
 The NTP has determined 2-Butoxyethanol is potentially carcinogenic to mice. The relevance to humans is unknown.

Aggravated Medical Condition : May be aggravating to some skin conditions
 asthma-type conditions
 pre-existing liver and/or kidney disorders

Primary Routes of Entry : Skin contact
 Skin absorption
 Inhalation
 Eyes
 Ingestion

Carcinogenicity:

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 a carcinogen or potential carcinogen by OSHA.

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.

ACGIH	2-Butoxyethanol	111-76-2
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Environmental Effects

Environmental Effects : No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Solution of foam destroying polymers, silicone free

Hazardous components

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Component	CAS-No.	Weight %
Stoddard Solvent (Mineral spirits)	8052-41-3	60.00 - 100.00
Hydroxy acetic acid butyl ester (Butyl glycolate)	7397-62-8	5.00 - 10.00
2-Butoxyethanol	111-76-2	1.00 - 5.00

SECTION 4. FIRST AID MEASURES**First aid procedures**

- Inhalation : Remove to fresh air. Administer artificial respiration if necessary. Get medical aid as soon as possible.
- Skin contact : Remove contaminated clothing. Wash thoroughly with soap and water.
- Eye contact : Immediately flush with plenty of water for at least 20 minutes. Get medical aid.
- Ingestion : 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.

Notes to physician

- Risks : No information available.

SECTION 5. FIRE-FIGHTING MEASURES**Flammable properties**

- Flash point : 34 °C (93.20 °F)
Method: 48 (Abel-Pensky)
- Ignition temperature : 210 °C (410.00 °F)
Method: calculated
- Lower explosion limit : 0.60 %(V)
- Upper explosion limit : 10.60 %(V)
- Suitable extinguishing media : Foam
Carbon dioxide (CO₂)
Dry chemical

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- Unsuitable extinguishing media : No information available.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Specific hazards during fire fighting : Cool closed containers exposed to fire with water spray.
Will not explode on mechanical impact.
- Hazardous decomposition products due to incomplete combustion : Carbon oxides
- Further information : Keep away from heat and sources of ignition.
Keep away from oxidizing agents.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : 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 for containment : Stop leak. Dike and contain spill.
- Methods for cleaning up : Pump into salvage tanks and/or absorb with suitable material.
Use sparkless shovels to remove material.
- Additional advice : No further information is available.

SECTION 7. HANDLING AND STORAGE**Handling**

- 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.
Keep away from oxidizing agents.
Keep away from strong bases.

Storage

- Advice on common storage : Keep product and empty container away from heat and sources of ignition.
Take precautionary measures against static discharges.
Keep in a dry, cool and well-ventilated place.

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

Components	CAS-No.	Value	Control parameters	Update	Basis
Stoddard Solvent (Mineral spirits)	8052-41-3	TWA	100 ppm 525 mg/m ³	1994-09-01	ACGIH
		TWA	500 ppm 2,900 mg/m ³	1993-06-30	OSHA P1
2-Butoxyethanol	111-76-2	TWA	20 ppm	2003-01-01	ACGIH
		TWA	50 ppm 240 mg/m ³	1993-06-30	OSHA P1

Engineering measures

Engineering measures : Use with local exhaust ventilation.

Personal protective equipmentEye protection : Safety Glasses
Goggles

Hand protection : Nitrile rubber

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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.

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**

Form : liquid

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Colour	: colourless
Odour	: hydrocarbon-like
Odor Threshold	: no data available
Flash point	: 34 °C (93.20 °F) Method: 48 (Abel-Pensky)
Ignition temperature	: 210 °C (410.00 °F) Method: calculated
Lower explosion limit	: 0.60 %(V)
Upper explosion limit	: 10.60 %(V)
pH	: no data available
Freezing point	: no data available
Initial boiling point	: 144 °C (291.20 °F)
Vapour pressure	: 5.0000000 hPa at 20 °C (68.00 °F) Method: calculated
Evaporation rate	: no data available
Density	: 0.8200 g/cm ³ at 20 °C (68.00 °F)Method: DIN EN ISO 2811-3
Bulk density	: not applicable
Water solubility	: immiscible
Partition coefficient: n-octanol/water	: no data available
Viscosity, kinematic	: 105.000 mm ² /s at 20 °C (68.00 °F) 7.000 - 99.000 mm ² /s at 40 °C (104.00 °F)
Relative vapour density	: no data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: None known.
Materials to avoid	: Strong oxidizing agents alkalis
Hazardous decomposition products	: None known.
Chemical stability	: Stable; polymerization will not occur

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SECTION 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity (Product) : LD50 rat
Dose: 17,700.000000 mg/kg
Method: OECD Test Guideline 401
- Acute oral toxicity (Component) : Component: 8052-41-3 Stoddard Solvent (Mineral spirits)
LD50 rat
Dose: > 6,000 mg/kg
- Component: 7397-62-8 Hydroxy acetic acid butyl ester (Butyl glycolate)
LD50 rat
Dose: 4,595 mg/kg
- Component: 111-76-2 2-Butoxyethanol
LD50 rat
Dose: 530 mg/kg
LD50 rabbit
Dose: 520 mg/kg
- Acute dermal toxicity (Component) : Component: 8052-41-3 Stoddard Solvent (Mineral spirits)
LD50 rabbit
Dose: > 3,000 mg/kg
- Component: 7397-62-8 Hydroxy acetic acid butyl ester (Butyl glycolate)
LD50
no data available
- Component: 111-76-2 2-Butoxyethanol
LD50 rabbit
Dose: 220 mg/kg
LD50 rabbit
Dose: 100 mg/kg
- Acute inhalation toxicity (Component) : Component: 8052-41-3 Stoddard Solvent (Mineral spirits)
LC50 rat
Dose: 5,500 mg/m3
- Component: 7397-62-8 Hydroxy acetic acid butyl ester (Butyl glycolate)
LC50
no data available
- Component: 111-76-2 2-Butoxyethanol
LC50 rat
Dose: 468 ppm

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Skin irritation (Product)	:	rabbit Result: Mild skin irritation Method: OECD Test Guideline 404
Skin irritation (Component)	:	Component: 8052-41-3 Stoddard Solvent (Mineral spirits) rabbit Result: Moderate skin irritation Component: 7397-62-8 Hydroxy acetic acid butyl ester (Butyl glycolate) rabbit Result: Moderate skin irritation Component: 111-76-2 2-Butoxyethanol rabbit Result: Moderate skin irritation
Eye irritation(Component)	:	Component: 8052-41-3 Stoddard Solvent (Mineral spirits) rabbit Result: Eye irritation Component: 7397-62-8 Hydroxy acetic acid butyl ester (Butyl glycolate) rabbit Result: Corrosive to eyes Component: 111-76-2 2-Butoxyethanol rabbit Result: Eye irritation
Sensitisation (Product)	:	no data available

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information (Product) : no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

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

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DOT UN Number : 1268
 Proper shipping name : Petroleum distillates, n.o.s.
 Class : 3
 Packing group : III
 Emergency Response : 128
 Guidebook Number

IATA UN Number : 1268
 Description of the goods : Petroleum distillates, n.o.s.
 Class : 3
 Packing group : III
 ICAO-Labels : 3
 Packing instruction (cargo aircraft) : 310
 Packing instruction (passenger aircraft) : 309
 Package Instruction (Limited quantity) : Y309

IMDG UN Number : UN 1268
 Description of the goods : Petroleum distillates, n.o.s.
 Class : 3
 Packing group : III
 IMDG-Labels : 3
 EmSNumber1 : F-E
 EmSNumber2 : S-E
 Marine pollutant : yes

SECTION 15. REGULATORY INFORMATION

HMIS Classification : Health Hazard: 1
 Chronic Health Hazard: *
 Flammability: 3
 Reactivity: 0
 PPI:B

National Fire Protection Association (NFPA) Class : IC

Emergency Planning Community Right-To-Know (EPCRA)

SARA 302 Components : Not applicable

If listed below, this product contains 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.

SARA 313 Components	: 2-Butoxyethanol	111-76-2	1.0%
SARA 313 Components	: 1,2,4-Trimethylbenzene	95-63-6	3.0%

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SARA 311/312 Hazards : Chronic Health Hazard
Fire Hazard

Toxic Substances Control Act (TSCA)

TSCA Status : 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 (exempt)

Section 4 / 12(b) : Not applicable

Clean Air Act & Related Information

Non-volatile (Wt) : 19 - 21 %
Method: 22 (10min/150°C)
DIN EN ISO 3251

Ozone Depleting Substances : Not applicable.

Non-volatile information is not a specification.

Hazardous Air Pollutants

If not listed above, this product does not contain HAPs at 1% or 0.1% or greater. Refer to Section 3 for HAP weight percentage.

Resource Conservation and Recovery Act

EPA Hazardous Waste Code(s)	: D001	Ignitable
	D018	Benzene

State Laws

Massachusetts Right To Know Components	: Stoddard Solvent (Mineral spirits)	8052-41-3
	2-Butoxyethanol	111-76-2

Pennsylvania Right To Know Components	: Hydroxy acetic acid butyl ester (Butyl glycolate)	7397-62-8
	Stoddard Solvent (Mineral spirits)	8052-41-3
	-	-
	2-Butoxyethanol	111-76-2

New Jersey Right To Know Components	: Stoddard Solvent (Mineral spirits)	8052-41-3
	-	-

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Hydroxy acetic acid butyl ester (Butyl glycolate)	7397-62-8
2-Butoxyethanol	111-76-2

**New Jersey Trade Secret
Registry Number for the
product (NJ TSRN)** : 800963-5505

**California Prop. 65
Components** : WARNING: This product contains a chemical(s) known to the
State of California to cause cancer and birth defects or other
reproductive harm.

Contains or Trace concentrations Benzene

CONEG Heavy Metal: We certify that this product does not contain Lead, Mercury, Cadmium or hexavalent chromium in the sum concentration of 100 ppm by weight or greater.

Canadian Environmental Protection Act

Domestic Substances List

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

WHMIS Classification : B2
D1A
D2A

SECTION 16. OTHER INFORMATION**Further information**

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.