

BYK-371

Version 2 Revision Date 12/28/2010 Print Date 12/29/2010

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BYK-371

Product Use Description : Surface Additive

Company : BYK USA Inc.

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number

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form : liquid
Colour : light yellow
Odour : aromatic

OSHA Regulatory Status

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

Potential Health Effects

Eyes : Contact will probably cause irritation.

Skin : Contact will probably cause irritation.

Ingestion : May irritate the digestive tract and cause same symptoms as

inhalation; high dosages may result in unconsciousness.

Inhalation : 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).

Chronic Exposure : 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

Animal studies have shown Xylene to cause fetotoxic effects

at dosage levels at or near maternal toxicity levels.

Excessive inhalation of Xylene has caused hearing loss in laboratory animals. Hexane used in conjunction w/Xylene greatly increased this effect. Chronic skin contact w/Xylene



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has caused dermatitis. Ingestion of Ethanol can increase

effects of overexposure to Xylene.

Ethylbenzene is an IARC Group 2B carcinogen based on animal studies (increased tumors in rats and mice).

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 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.

Environmental Effects

Environmental Effects : No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Solution of an acrylfunctional polyester modified polydimethylsiloxane

Hazardous components

Ethylbenzene is a component of Xylene.

Component	CAS-No.	Weight percent
Xylene	1330-20-7	30.00 - 60.00
Ethylbenzene	100-41-4	10.00 - 30.00



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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.

Immediately flush with plenty of water for at least 20 minutes. Eye contact

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

: 26 °C (78.80 °F) Flash point

Method: 48 (Abel-Pensky)

Ignition temperature : > 200 °C (> 392 °F)

Method: calculated

Lower explosion limit : 1.20 %(V)

Upper explosion limit : 7.00 %(V)

Suitable extinguishing

: Foam

media

Carbon dioxide (CO2)

Dry chemical

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 Carbon oxides



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products due to incomplete

combustion.

silicone compounds formaldehyde

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.

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Xylene	1330-20-7	TWA	100 ppm	2007-01-01	ACGIH



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		STEL	150 ppm	2007-01-01	ACGIH
		TWA	100 ppm 435 mg/m3	1997-08-04	OSHA P1
		TWA	100 ppm 435 mg/m3	1989-01-19	OSHA P0
		STEL	150 ppm 655 mg/m3	1989-01-19	OSHA P0
Ethylbenzene	100-41-4	TWA	100 ppm	2009-01-01	ACGIH
		STEL	125 ppm	2009-01-01	ACGIH
		TWA	100 ppm 435 mg/m3	1997-08-04	OSHA P1
		TWA	100 ppm 435 mg/m3	1989-01-19	OSHA P0
		STEL	125 ppm 545 mg/m3	1989-01-19	OSHA P0

Engineering measures

Engineering measures : Use with local exhaust ventilation.

Personal protective equipment

Eye protection : Safety Glasses

Goggles

Hand protection : Viton

Skin and body protection : Choose body protection according to the amount and

concentration of the dangerous substance at the work place.



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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
Colour : light yellow
Odour : aromatic

Odor Threshold : no data available Flash point : $26 \, ^{\circ}\text{C} \, (78.80 \, ^{\circ}\text{F})$

Method: 48 (Abel-Pensky)

Ignition temperature : > 200 °C (> 392 °F)

Method: calculated

Lower explosion limit : 1.20 %(V)

Upper explosion limit : 7.00 %(V)

pH : no data available Freezing point : no data available Initial boiling point : 137 °C (278.60 °F)

Vapour pressure : 8.0000000 hPa

at 20 °C (68.00 °F) Method: calculated

Evaporation rate : no data available

Density : 0.9450 g/cm3

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 : at 20 °C (68.00 °F)

no data available

at 40 °C (104.00 °F) no data available

Relative vapour density : no data available



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SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : None known.

Materials to avoid : Strong oxidizing agents

Hazardous decomposition

products

: None expected

Chemical stability : Stable; polymerization will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product) : LD50 rat

Dose: > 6,000.000000 mg/kg Method: OECD Test Guideline 401

active ingredient

Acute oral toxicity

(Component)

: Component: 1330-20-7 Xylene

LD50 rat

Dose: 3,523 mg/kg

Component: 100-41-4 Ethylbenzene

LD50 rat

Dose: 3,500 mg/kg

Acute dermal toxicity

(Component)

Component: 1330-20-7 Xylene

LD50 rabbit

Dose: 1,700 mg/kg

Component: 100-41-4 Ethylbenzene

LD50 rabbit Dose: 5,510 mg/kg

Acute inhalation toxicity

(Component)

Component: 1330-20-7 Xylene

LC50 rat

Dose: 5000 ppm Exposure time: 4 h

Component: 100-41-4 Ethylbenzene

LC50

no data available

Skin irritation (Product) : rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

active ingredient



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Skin irritation (Component) : Component: 1330-20-7 Xylene

rabbit

Result: Moderate skin irritation

Component: 100-41-4 Ethylbenzene

rabbit

Result: Moderate skin irritation

Eye irritation (Product) : rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

active ingredient

Eye irritation(Component) : Component: 1330-20-7 Xylene

rabbit

Result: Eye irritation

Component: 100-41-4 Ethylbenzene

rabbit

Result: Moderate eye irritation

Sensitisation (Product) : no data available

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information (Product)

: There is no data available for this product.

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)

CERCLA RQ: Drums Only (Xylene 100 pounds)

DOT UN Number : 1993

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

(Xylene, Ethylbenzene)

Class : 3 Packing group : III Emergency Response : 128

Guidebook Number



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IATA UN Number : 1993

Description of the goods : FLAMMABLE LIQUID, N.O.S.

(Xylene, Ethylbenzene)

Class : 3
Packing group : III
ICAO-Labels : 3
Packing instruction (cargo : 366

aircraft)

Packing instruction : 355

(passenger aircraft)

Package Instruction (Limited: Y344

quantity)

IMDG UN Number : UN 1993

Description of the goods : FLAMMABLE LIQUID, N.O.S.

(Xylene, Ethylbenzene)

Class : 3
Packing group : III
IMDG-Labels : 3
EmSNumber1 : F-E
EmSNumber2 : S-E
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

HMIS Classification : Health hazard: 2

Chronic Health Hazard: *

Flammability: 3 Reactivity: 0 PPI:B

National Fire Protection : IC Association (NFPA) Class

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 : Xylene 1330-20-7 47.9%

Ethylbenzene 100-41-4 11.9%

SARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

Fire Hazard

Toxic Substances Control Act (TSCA)



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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 per 40 CFR 720 30(h).

Section 4 / 12(b) : p-Xylene (106-42-3)

Clean Air Act & Related Information

Non-volatile (Wt) : 38 - 42 %

Method: 23 (20min/150°C)

DIN EN ISO 3251

Ozone Depleting Substances

: Not applicable.

Non-volatile information is not a specification.

Hazardous Air Pollutants

Xylene 1330-20-7 Ethylbenzene 100-41-4

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

: Xylene

1330-20-7

Ethylbenzene 100-41-4

Pennsylvania Right To **Know Components**

: Xylene

1330-20-7

Ethylbenzene

100-41-4

New Jersey Right To Know Components

: Xylene

1330-20-7

Ethylbenzene

100-41-4

New Jersey Trade Secret Registry Number for the product (NJ TSRN)

: 800963-5265



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California Prop. 65

Components

: WARNING! This product contains a chemical known to the

State of California to cause cancer.

Ethylbenzene 100-41-4 Benzene 71-43-2

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

harm.

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

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 : The following component(s) is/are not listed on the DSL:

CEPA Category : Polymer
Weight percent : 40 %
NSN Filed : Schedule 9
Max. NSN Required : Schedule 10

WHMIS Classification : B2

D2A D2B

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.