

MATERIAL SAFETY DATA SHEET
U.S. and Canada

IDENTIFICATION SECTION

PRODUCT NAME: BYK-A 530

HMIS: 110 B
WHMIS: Not controlled

MANUFACTURER: BYK-Chemie USA Inc.,
524 South Cherry Street, Wallingford, CT 06492

CHEMICAL FAMILY: Combination of foam destroying polymers and polysiloxanes
USE: Plastic additive

NJ TSRN: 800963-5063

PREPARATION INFORMATION

PREPARED BY: Joanne Nole, Safety and Training Specialist

TELEPHONE: 203-265-2086

REVISION DATE: 01/01/2001

For regulatory information, please refer to the product's Regulatory Information Data Sheet (RIDS).

HAZARDOUS INGREDIENTS

CAS NUMBER%(wt)	CHEMICAL NAME	TLV (ACGIH) [ppm]	STEL (ACGIH) [ppm]	PEL (OSHA) [ppm]	CARCIN- OGEN	LD50 (oral, rat) [mg/kg]
64742-47-8 95	Distillates (petroleum), hydrotreated light	(300)	-	-	no	>5000

() = recommended by supplier (TWA)

NON-HAZARDOUS INGREDIENTS

Information concerning non-hazardous ingredients is considered a Trade Secret

PHYSICAL DATA

BOILING RANGE (Solv.):	457-518°F (236-270°C)	SPECIFIC GRAVITY (H2O=1):	0.81 (20°C)
FREEZING POINT:	Not available	EVAPORATION RATE:	Not available
VAPOR DENSITY (AIR=1):	> 1	SOLUBILITY IN WATER:	Insoluble
VAPOR PRESSURE (@ 20 C):	< 1 mm Hg (estimated)	PH VALUE:	Not available
APPEARANCE:	Clear yellowish liquid	WATER/OIL DISTRIBUTION COEFF.:	Not available
ODOR:	Hydrocarbon-like	ODOR THRESHOLD:	Not available

FIRE AND EXPLOSION DATA

FLASH POINT: 203° F (95°C) Setaflash (cc) FLAMMABLE LIMITS (% Vol in air): LEL= 1.6
AUTO IGNITION TEMPERATURE: 412° F (211° C) (solvent) UEL= 10.2
EXTINGUISHING MEDIA: Foam, carbon dioxide, or dry chemical
HAZARDOUS COMBUSTION PRODUCTS: Carbon mono/dioxide, silicon compounds, formaldehyde
SPECIAL FIRE FIGHTING PROCEDURES: Wear full body protective clothing and self-contained breathing apparatus.
Water spray may be used to keep fire exposed containers cool.
FIRE AND EXPLOSION HAZARDS: Keep away from heat and flames.
Will not explode upon mechanical impact.

REACTIVITY DATA

STABILITY: Stable; polymerization will not occur CONDITIONS TO AVOID: None known
INCOMPATIBILITY: Strong oxidizing agents
HAZARDOUS DECOMP. PRODUCTS: None expected

HEALTH HAZARD DATA

TOXICOLOGICAL DATA: LD50 (oral, rat) = Not available (product), >5000 mg/kg (active ingredient)
Skin irritation (rabbit): Non-irritant (active ingredient) Eye irritation (rabbit): Non-irritant (active ingredient)
Distillates (petroleum), hydrotreated light: LD50 (dermal, rabbit): >3160 mg/kg
Carcinogenicity, reproductive toxicity, teratogenicity, mutagenicity and sensitization of the product : Not Available
EXPOSURE LIMITS: Refer to Hazardous Ingredients Section

EFFECTS OF EXPOSURE:

Acute: Inhalation: High concentrations (>700 ppm) of vapors/mists may be irritating to the respiratory tract. May cause headaches, dizziness, nausea, vomiting; CNS depression (drowsiness, loss of coordination, fatigue).
Eye: Contact may cause irritation.
Skin: Contact may cause irritation.
Ingestion: Ingestion may irritate the digestive tract; high dosages may cause CNS depression.
Chronic: No known chronic health effects.
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.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May be aggravating to some asthma-type conditions.

ROUTES OF ENTRY: Inhalation: possible Eye: possible
Skin: Contact-possible; Absorption-possible Ingestion: not likely

FIRST AID MEASURES

Inhalation: Remove to fresh air. Administer artificial respiration if necessary. Get medical aid as soon as possible.
Eye: Immediately flush with plenty of water for at least 15 minutes. Get medical aid.
Skin: Remove contaminated clothing. Wash thoroughly with soap and water.
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.
Never give anything by mouth to an unconscious person.

PREVENTIVE MEASURES

PERSONAL AND SPECIAL PROTECTION INFORMATION:

RESPIRATORY: Unless air monitoring demonstrates dusts/mists/vapors are below the recommended exposure levels and/or WEEL, wear a properly fitted respirator (NIOSH) or dust mask during exposure.

VENTILATION: Local exhaust recommended.

EYE PROTECTION: Safety glasses; goggles recommended

GLOVES: Neoprene rubber recommended

OTHER EQUIPMENT: Clean long legged, long sleeved work clothes.

WORK PRACTICES: Use in accordance with good industrial hygiene and safety practices.

SPILL OR LEAK PROCEDURES:

Eliminate all sources of ignition. Wear protective equipment: safety glasses, gloves and an appropriate respirator if in a confined area. Stop leak. Dike and contain spill. Pump into salvage tanks and/or absorb with suitable material.

WASTE DISPOSAL:

U.S.A.: Dispose of in accordance with applicable local, state and federal regulations.

Canada: Dispose of in accordance with applicable municipal, provincial and federal regulations.

STORAGE AND HANDLING PRECAUTIONS:

Avoid skin and eye contact. Avoid prolonged breathing of mists/vapors/dusts.

Handle as an industrial chemical. Keep container tightly closed when not in use. Keep away from strong oxidizing materials.

* * * * * END OF MSDS * * * * *

REGULATORY INFORMATION DATA SHEET (RIDS)

Product Name: BYK-A 530	HMIS: 110 B
Manufacturer: BYK-Chemie USA Inc. P.O. Box 5670, 524 South Cherry Street Wallingford, CT USA 06492-7651	NFPA Class: III B Flash Point: 203° F Setflash (cc) Revision Date: 01/01/2001 Supersedes: 01/01/1999
Contact: Megan McCutcheon, EHS Manager	Telephone: 203-265-2086

United States Federal Laws

EPCRA -- EMERGENCY PLANNING COMMUNITY RIGHT-TO-KNOW
[also known as Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)]

Section 302/304 Extremely Hazardous Substances/Release Reporting: Not applicable

Section 311 Hazard Category (e.g., Acute, Chronic, Fire, Reactive, Pressure): Not applicable

Section 313 Toxic Chemical -- Supplier Notification:

This product does not contain any EPCRA 313 toxic chemicals in excess of the applicable de minimis concentration.

TSCA - TOXIC SUBSTANCES CONTROL ACT

TSCA Inventory: BYK-Chemie USA Inc. certifies 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 5 Rules or Orders: Not applicable

Section 6 Regulation of Existing Chemicals: Not applicable

Section 7 Imminent Hazards: Not applicable

Section 4 Test Rules / Section 12 Export Notification**: Not applicable

DOT - US DEPARTMENT OF TRANSPORTATION CLASSIFICATION

Proper Shipping Name	Not Regulated		
Hazard Class:	-	Primary Label:	-
ID Number:	-	Subsidiary Label:	-
Packing Group:	-	NAERG Page Number:	-
Technical Names:	-		
CERCLA RQ:	-	Emergency Contact:	CHEMTREC 1-800-424-9300
RQ Substance:	-	RQ Pounds:	-

[Container sizes: 55 gallon drums; 5 gallon pails; 2 oz. and 16 oz. samples]

CLEAN AIR ACT & RELATED INFORMATION

Non-volatile percent (range)*:	4.5 - 5.5	Method: ISO 3251, 20 min. @ 150°C
Ozone Depleting Substances:	Not applicable	
Hazardous Air Pollutants**:	Not applicable	

* Non-volatile information is not a specification.

** NOTE: Refer to the MSDS for percentages. | HAP is listed if in product at 1% or 0.1% or greater.

RCRA - RESOURCE CONSERVATION AND RECOVERY AUTHORIZATION ACT

EPA Hazardous Waste Code(s): Not Applicable

FOOD, DRUGS AND COSMETICS ACT -- INDIRECT FOOD ADDITIVES (21 CFR)

Not Applicable

STATE LAWS

California Safe Drinking Water and Toxic Enforcement Act of 1986 -- Proposition 65

Not Applicable

New Jersey Trade Secret Registry Number for the product (NJTSRN): 800963-5063

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

CANADIAN LAWS/REGULATIONS

DSL - Domestic Substance List: BYK-Chemie USA certifies that all of the components of this product
are listed on the DSL

WHMIS Classification: Refer to the Identification Section of the product's MSDS, where applicable.

WHMIS Trade Secret Registry Number: Refer to the Hazardous Ingredient Section of the product's MSDS, where applicable.

Transportation of Dangerous Goods (TDG): Refer to the U.S. DOT Classification and to the TDG Regulations.

NATIONAL INVENTORIES

U.S. Toxic Substances Control Act (TSCA): Refer to U.S. Federal Laws Section
Canadian Domestic Substance List (DSL): Refer to Canadian Laws/Regulations Section
European List of Notified Chemical Substances (EINECS): All of the components of this product are either listed
in EINECS or are polymers and are exempt from registration.

Contact the EHS Department for other inventory information.

INFORMATION CHANGED: NV Method; format - added flash point, NFPA classification

***** END OF RIDS *****

MATERIAL SAFETY DATA SHEET
U.S. and Canada

IDENTIFICATION SECTION

PRODUCT NAME: BYK-390 HMIS: 2*30 B
WHMIS: B2, D2A, D2B

MANUFACTURER: BYK-Chemie USA Inc.,
524 South Cherry Street, Wallingford, CT 06492

CHEMICAL FAMILY: NJ TSRN:800963-5105
Polyacrylate copolymer

USE: Paint additive

PREPARATION INFORMATION

PREPARED BY: Joanne Nole, Safety and Training Specialist TELEPHONE: 203-265-2086 REVISION DATE: 04/01/2001

For regulatory information, please refer to the product's Regulatory Information Data Sheet (RIDS).

HAZARDOUS INGREDIENTS

CAS NUMBER	% (Wt)	CHEMICAL NAME	TLV (ACGIH) [ppm]	STEL (ACGIH) [ppm]	PEL (OSHA) [ppm]	CARCIN- OGEN	LD50 (oral, rat) [mg/kg]
1330-20-7	38	Xylene	100	150	100	no	3523
100-41-4	10	Ethylbenzene (component of Xylene)	100	125	100	IARC 2B	3500

NON-HAZARDOUS INGREDIENTS

Information concerning non-hazardous ingredients is considered a Trade Secret

PHYSICAL DATA

BOILING RANGE (Solv.): 279-289°F (137-143°C) SPECIFIC GRAVITY (H2O=1): 0.90 (20°C)
FREEZING POINT: Not available EVAPORATION RATE: Not available
VAPOR DENSITY (AIR=1): > 1 SOLUBILITY IN WATER: Insoluble
VAPOR PRESSURE (@ 20 C): 6 mm Hg (estimated) PH VALUE: Not available
APPEARANCE: Colorless to light yellow liquid WATER/OIL DISTRIBUTION COEFF.: Not available
ODOR: Solvent like ODOR THRESHOLD: Not available

FIRE AND EXPLOSION DATA

FLASH POINT: 81° F (27°C) Setaflash (cc) FLAMMABLE LIMITS (% Vol in air): LEL= 1.0
AUTO IGNITION TEMPERATURE: 797° F (425° C) (solvent) UEL= 7.5
EXTINGUISHING MEDIA: Foam, carbon dioxide, or dry chemical
HAZARDOUS COMBUSTION PRODUCTS: Carbon mono/dioxide, nitrous oxides
SPECIAL FIRE FIGHTING PROCEDURES: Wear full body protective clothing and self-contained breathing apparatus.
Water spray may be used to keep fire exposed containers cool.
FIRE AND EXPLOSION HAZARDS: Keep away from heat and flames. Prevent static discharge. Keep away from oxidizing materials
Will not explode upon mechanical impact.

REACTIVITY DATA

STABILITY: Stable; polymerization will not occur CONDITIONS TO AVOID: None known
INCOMPATIBILITY: Strong oxidizing agents
HAZARDOUS DECOMP. PRODUCTS: None expected

 HEALTH HAZARD DATA

TOXICOLOGICAL DATA: LD50 (oral, rat) = Not available (product)

Skin irritation (rabbit): Not available (product)

Eye irritation (rabbit): Not available (product)

LD50 (dermal, rabbit): >1700 mg/kg Xylene, 5510 mg/kg Ethylbenzene; LC50 (4 hr inhalation, rat): 5500 ppm Xylene

Carcinogenicity, reproductive toxicity, teratogenicity, mutagenicity and sensitization of the product : Not Available

EXPOSURE LIMITS: Refer to Hazardous Ingredients Section

EFFECTS OF EXPOSURE:

Acute: 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), cardiac injury, blurred vision, and reversible liver/kidney damage.

Eye: Contact will probably cause irritation.

Skin: Contact will probably cause irritation.

Ingestion: May irritate the digestive tract; high dosages may cause spleen congestion and same symptoms as inhalation; may result in unconsciousness.

Chronic: 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 ingredients have caused fetotoxic effects at or near maternally toxic levels. Excessive inhalation of Xylene has caused hearing loss in laboratory animals. Hexane used in conjunction w/Xylene has caused dermatitis. Chronic skin contact w/Xylene has caused dermatitis. Ingestion of Ethanol can increase the effects of over-exposure to Xylene.

IARC has classified Ethylbenzene as a Group 2B Carcinogen (possibly carcinogenic to humans) based on the increase of kidney tumors in rats and an increase in lung and liver cancer in mice.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May be aggravating to some skin and asthma-type conditions, and to pre-existing liver and/or kidney disorders.

ROUTES OF ENTRY: Inhalation: possible

Eye: possible

Skin: Contact-possible; Absorption-possible

Ingestion: not likely

 FIRST AID MEASURES

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

Eye: Immediately flush with plenty of water for at least 15 minutes. Get medical aid.

Skin: Remove contaminated clothing. Wash thoroughly with soap and water.

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. Never give anything by mouth to an unconscious person.

 PREVENTIVE MEASURES

PERSONAL AND SPECIAL PROTECTION INFORMATION:

RESPIRATORY: Unless air monitoring demonstrates vapor/mist/dust levels are below the PEL/TLV wear a properly fitted respirator (NIOSH approved) during exposure.

VENTILATION: Local exhaust recommended.

EYE PROTECTION: Safety glasses; goggles recommended

GLOVES: Nitrile rubber recommended

OTHER EQUIPMENT: Clean long legged, long sleeved work clothes.

WORK PRACTICES: Use in accordance with good industrial hygiene and safety practices.

SPILL OR LEAK PROCEDURES:

Eliminate all sources of ignition. Ventilate area if indoors. Wear self-contained breathing apparatus and full protective clothing. Stop leak. Dike and contain spill. Pump into salvage tanks and/or absorb with suitable material. Use sparkless shovels to remove material.

WASTE DISPOSAL:

U.S.A.: Dispose of in accordance with applicable local, state and federal laws.

Canada: Dispose of in accordance with applicable municipal, provincial and federal regulations.

STORAGE AND HANDLING PRECAUTIONS:

HARMFUL if absorbed through skin. Avoid skin and eye contact. Avoid prolonged breathing of mists/vapors/dusts.

Avoid heat, flame, sources of ignition. Take precautionary measures against static discharge.

Handle as an industrial chemical. Keep container tightly closed when not in use. Keep away from strong oxidizing materials.

Store containers in a well-ventilated, cool, dry location.

***** END OF MSDS *****

REGULATORY INFORMATION DATA SHEET (RIDS)

Product Name: BYK-390	HMIS: 2*30 B
Manufacturer: BYK-Chemie USA Inc. P.O. Box 5670, 524 South Cherry Street Wallingford, CT USA 06492-7651	NFPA Class: IC Flash Point: 81° F Setflash (cc) Revision Date: 07/13/2001 Supersedes: 01/01/1999
Contact: Megan McCutcheon, EHS Manager	Telephone: 203-265-2086

United States Federal Laws

EPCRA -- EMERGENCY PLANNING COMMUNITY RIGHT-TO-KNOW
[also known as Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)]

Section 302/304 Extremely Hazardous Substances/Release Reporting: Not applicable

Section 311 Hazard Category (e.g., Acute, Chronic, Fire, Reactive, Pressure): Acute, Chronic, Fire

Section 313 Toxic Chemical -- Supplier Notification:
This product contains a toxic chemical or chemicals 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. This supplier notification must be attached and remain attached to the product's Material Safety Data Sheet (MSDS), and if copies of the MSDS are redistributed, this supplier notification must be attached.

Chemical/Category	CASRN	Weight Percent in Product
Xylene	1330-20-7	38
Ethylbenzene	100-41-4	10

TSCA - TOXIC SUBSTANCES CONTROL ACT

TSCA Inventory: BYK-Chemie USA Inc. certifies 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 5 Rules or Orders: Not applicable

Section 6 Regulation of Existing Chemicals: Not applicable

Section 7 Imminent Hazards: Not applicable

Section 4 Test Rules / Section 12 Export Notification**: Not applicable

DOT - US DEPARTMENT OF TRANSPORTATION CLASSIFICATION

Proper Shipping Name	Flammable liquids, n.o.s.	Primary Label:	Flammable Liquid
Hazard Class:	3	Subsidiary Label:	Not applicable
ID Number:	UN 1993	ERG Page Number:	128
Packing Group:	III	Emergency Contact:	CHEMTREC 1-800-424-9300
Technical Names:	Xylene, Ethylbenzene	RQ Pounds:	100
CERCLA RQ:	Drums only		
RQ Substance:	Xylene		

[Container sizes: 55 gallon drums; 5 gallon pails; 2 oz. and 16 oz. samples]

CLEAN AIR ACT & RELATED INFORMATION

Non-volatile percent (range)*: 47.0 - 53.0 Method: ISO 3251, 60 min. @ 105°C

Ozone Depleting Substances: Not applicable

Hazardous Air Pollutants**: Xylene
Ethylbenzene

* Non-volatile information is not a specification.

** NOTE: Refer to the MSDS for percentages. | HAP is listed if in product at 1% or 0.1% or greater.

RCRA - RESOURCE CONSERVATION AND RECOVERY AUTHORIZATION ACT

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

FOOD, DRUGS AND COSMETICS ACT -- INDIRECT FOOD ADDITIVES (21 CFR)

Not Applicable

STATE LAWS

California Safe Drinking Water and Toxic Enforcement Act of 1986 -- Proposition 65

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

Contains: Benzene, Toluene (trace concentrations)

New Jersey Trade Secret Registry Number for the product (NJTSRN): 800963-5105

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

CANADIAN LAWS/REGULATIONS

DSL - Domestic Substance List: The following component/s is/are not listed on the DSL:

 Polymer 47 % by Wt. Schedule Filed: VI Maximum Schedule Required: VII

WHMIS Classification: Refer to the Identification Section of the product's MSDS, where applicable.

WHMIS Trade Secret Registry Number: Refer to the Hazardous Ingredient Section of the product's MSDS, where applicable.

Transportation of Dangerous Goods (TDG): Refer to the U.S. DOT Classification and to the TDG Regulations.

NATIONAL INVENTORIES

U.S. Toxic Substances Control Act (TSCA): Refer to U.S. Federal Laws Section
Canadian Domestic Substance List (DSL): Refer to Canadian Laws/Regulations Section

Contact the EHS Department for other inventory information.

INFORMATION CHANGED: CEPA DSL information; format - added flash point, NPPA classification

***** END OF RIDS *****