SAFETY DATA SHEET

Section 1 – Identification

Product Identifier: BHK

Part Number: BHK

Recommended Use: Exhaust and High Temperature Coating

Restrictions on Use:

Keep out of reach of children.
Not recommended for use on Medical equipment.
Not recommended for use on Aviation equipment.

Manufacturer / Supplier:

Tech Line Coatings Industries, Inc
10840 Chapmany Hwy Unit A
Seymour, TN 37865
USA
Phone/Fax 1-865-773-0599
www.techlinecoatings.com

Emergency Phone: N.America 1-800-535-5053
Intl. +1-352-323-3500

Section 2 – Hazards Identification

Signal Word: Danger

Symbols:

Hazard Statements:
Flammable liquid and vapor
Harmful in contact with skin
Harmful if inhaled
Causes skin Irritation
Causes Serious Eye Damage
Suspected of causing genetic defects
Suspected of causing cancer
Suspected of damaging fertility or the unborn child
May cause damage to organs; brain, liver, kidney, bladder, central nervous system
Harmful if swallowed

GHS Classification:	Category
Flammable Liquid	3
Acute Toxicity Dermal	4
Acute Toxicity Inhalation	4
Skin Irritation	2
Eye Damage	2
Germ Cell Mutagenicity	2
Carcinogenicity	2B
Toxic to Reproduction	2
Specific Target Organ Toxicity Single Exposure	2

Precautionary Statements:

Keep away from heat / sparks / open flames / hot surfaces. - No Smoking. Ground / bond container and receiving equipment. Use explosion proof electrical / ventilating / lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

In case of fire use alcohol-resistant foam, dry chemical or carbon dioxide

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Wear protective gloves / protective clothing (chemical proof). Wear eye protection and face protection. Wash hands, face and any exposed skin thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat drink or smoke when using this product. Do not breath fumes / mist / vapors / spray. Use only outdoors or in a well ventilated area.

If swallowed: immediately call a poison center / doctor for medical advice. Do NOT induce vomiting.

If on skin: wash with plenty of water. Call a poison center / doctor if you feel unwell or if irritation occurs. Immediately take off all contaminated clothing and wash it before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center / doctor for medical advice.

If in eyes: Rinse cautiously in water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison control center / doctor.

If exposed or concerned: Get medical advise / attention, from a poison center / doctor.

Dispose of Contents / container in accordance with regulations in your area. See section 13 for additional information.

Section 3 – Composition / Information On Ingredients

Component Name	Common Name / Synonyms	CAS#	% of Weight
Xylene		1330-20-7	< 26%
Pigment Black 33	Iron Manganese Oxide	75864-23-2	< 22%
Isobutyl Alcohol	Isobutanol	78-83-1	< 11%
Toluene		108-88-3	< 10%
Ethyl benzene		100-41-4	< 5%
Molybdenum disulfide	MoS2	1317-33-5	< 5%

Other ingredients are not hazardous based on OSHA standard Section 29 CFR 1910.1200

Section 4 – First Aid Measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water, and remove contaminated clothing shoes and leather goods. Consult a physician..

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 – Fire Fighting Measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	**Special Fire Fighting Procedures:** Wear self contained breathing apparatus for fire fighting if necessary.
Unusual Fire And Explosion Hazards: Hazardous decomposition products formed under extreem fire conditions. - Carbon and other oxides. Vapors are heavier than air and may travel to a source of ignition and flash back.	**Additional Information:** Use water spray to cool unopened containers.

Section 6 – Accidental Release Measures

Methods for Containment and Clean Up

- Soak up with inert absorbent material.
- Keep in suitable, marked and closed containers for disposal.
- Use spark-proof tools and explosion-proof equipment.
- Remove sources of ignition.
- Warn other workers of spill.
- Wear protective equipment
    - NIOSH Approved Respirator

- Gloves
- Safety Glasses

- Do not allow material to be released into the environment.

Additional Information:

- See Section 7 for safe handling information.
- See Section 8 for PPE information
- See Section 13 for disposal information

Section 7 – Handling And Storage

Handling:

Do not breathe vapors or mists from spraying. Avoid contact with skin and eyes. Use with adequate ventilation to maintain exposure levels below established exposure limits. Wear personal protective equipment. If required wear an appropriate NIOSH approved respirator with paint prefilter. Use explosion-proof equipment. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

Storage:

Store in area suitable for flammable liquids. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

Section 8 – Exposure Controls And Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH REL
Xylene	TLV: 100 ppm TWA: 150 ppm	TWA: 100 ppm	100 ppm 10 hour shift 200 ppm 10 minutes
Pigment Black 33	TWA 0.2 mg/m3 as Mn	CLV 5 mg/m3 as Mn	
Isobutyl Alcohol	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm
Toluene	TWA: 50 ppm	TWA: 300 ppm	STEL: 150 ppm TWA: 100 ppm
Ethyl benzene	TLV: 100 ppm TWA: 125 ppm	TWA: 100 ppm	TWA: 100 ppm
Molybdenum disulfide	TWA 10 mg/m3	TWA 10 mg/m3	

Engineering Controls: Exhaust ventilation.
Showers
Eyewash stations
Use in a well-ventilated area.

Respiratory Protection: Use NIOSH approved respirator if TWA/TLV limits are exceeded

Protective Gloves: CHEMICAL RESISTANT

Eye Protection: SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES

Other Protective Equipment: WEAR PROTECTIVE CLOTHING, CHEMICAL RESISTANT OR OTHER PROTECTIVE OUTERWEAR, AVOID CONTACT WITH SKIN OR EYES

Ventilation: Local Exhaust: Use To Maintain Below TWA Limits

Mechanical: Use Non-Sparking Equipment

Work / Hygienic Practices: wash thoroughly after handling product and before eating, drinking or smoking

Section 9 – Physical And Chemical Properties

Form :	liquid
Color :	Black
Odor :	Mixture of Solvents
Odor Threshold:	Not Established

pH :	No data available
Melting point/range :	No data available
Initial boiling point :	> 150° F.
Flash point :	> 94° F.
Evaporation Rate:	No data available on mixture
Upper/lower flammability or explosive limits:	No data available on mixture
Vapor pressure	No data available on mixture
Vapor density	> 1 - (air =1)
Relative density	No data available on mixture
Solubility(ies)	No data available on mixture
Partition coefficient: n-octanol/water	No data available on mixture
Auto-ignition temperature	No data available on mixture
Decomposition temperature	No data available on mixture
Viscosity	50 centistokes at 100° F.
Total VOC	< 606 g/l

Section 10 – Stability And Reactivity

Stability:	STABLE
Possibility of hazardous reactions:	Hazardous Polymerization: Will not occur.
Conditions to avoid:	Avoid storage of open containers at elevated temperatures. Heat, flames and sparks, direct sunlight.
Incompatible Materials:	Oxidizing material can cause a reaction.
Hazardous Decomposition Products:	Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silicon dioxide. Carbon oxides. Metal oxides. Formaldehyde.

Section 11 – Toxicological Information

Potential Health Effects

Inhalation	Harmful if inhaled.
Ingestion	May be fatal if swallowed and enters airways
Skin	Harmful in contact with skin. Causes skin irritation.
Eyes	Causes Serious Eye Damage

Acute Toxicity

Xylene	Oral LD50	mouse: LD50 = 2119 mg/kg rat: LD50 = 4300 mg/kg
	Inhalation LC50	rat: LC50 = 5000 ppm/4H
	Dermal LD50	rabbit: LD50 = >1700 mg/kg
Pigment Black 33	Oral LD50	LD50 Oral - rat - > 5,000 mg/kg
	Inhalation LC50	No data available
	Dermal LD50	No data available
Toluene	Oral LD50	LD50 Oral - rat - > 5,580 mg/kg

	Inhalation LC50	LC50 Inhalation - rat - 4 h - 12,500 - 28,800 mg/m3
	Dermal LD50	LD50 Dermal - rabbit - 12,196 mg/kg
Isobutyl Alcohol	Oral LD50	LD50 Oral - rat - 2,460 mg/kg LD50 Oral - rat - 2,500 - 6,400 mg/kg
	Inhalation LC50	LC50 Inhalation - rat - 4 h - 8000 ppm
	Dermal LD50	LD50 Dermal - rabbit - 3,400 mg/kg LD50 Dermal - rabbit - 4,240 mg/kg
	Other information on acute toxicity	LD50 Intraperitoneal - mouse - 544 mg/kg LD50 Intravenous - mouse - 417 mg/kg LD50 Intraperitoneal - rabbit - 323 mg/kg LD50 Intraperitoneal - guinea pig - 1,201 mg/kg LD50 Intraperitoneal - Hamster - 1,401 mg/kg
Ethyl benzene	Oral LD50	No data available
	Inhalation LC50	No data available
	Dermal LD50	LD50 Dermal - rabbit - 15,433 mg/kg
Molybdenum disulfide	Oral LD50	No data available
	Inhalation LC50	LC50 Inhalation - rat - 4 h - > 2,820 mg/m3 Remarks: Lungs, Thorax, or Respiration:Other changes.
	Dermal LD50	No data available

Skin Corrosion/Irritation

Isobutyl Alcohol
Skin - guinea pig - Mild skin irritation
Toluene
Skin - rabbit - Skin irritation - 24 h

Serious Eye Damage/Eye Irritation

Isobutyl Alcohol
Eyes - rabbit - Remarks: Moderate eye irritation

Respiratory Or Skin Sensitization

Isobutyl Alcohol
Dermatitis

Germ Cell Mutagenicity

Toluene
Genotoxicity in vitro - rat - Liver
DNA damage

Carcinogenicity

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Ethylbenzene) 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene, Xylene)
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.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
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.

This product contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Isobutyl Alcohol

Carcinogenicity - rat - Oral

Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors. Leukaemia

Carcinogenicity - rat - Subcutaneous

Tumorigenic:Carcinogenic by RTECS criteria. Gastrointestinal:Tumors. Liver:Tumors.

Reproductive Toxicity

No data available

Specific Target Organ Toxicity Single Exposure

Isobutyl Alcohol

Inhalation - May cause respiratory irritation.

May cause drowsiness or dizziness.

Toluene

Developmental Toxicity - rat - Oral

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Damage to fetus possible

Suspected human reproductive toxicant

Specific Target Organ Toxicity Repeated Or Prolonged Exposure

No data available

Aspiration Hazard

Aspiration into the lungs can cause fatal chemical pneumonitis.

Section 12 – Ecological Information

General Comments:

Do not allow material to be released into the environment without proper governmental permits

Environmental Toxicity:

Xylene	
Toxicity to fish	Rainbow trout: LC50 = 13.5 mg/L; 96 Hr; Unspecified Goldfish: LD50 = 13 mg/L; 24 Hr; Unspecified Fathead Minnow: LC50 = 46 mg/L; 1 Hr
Toxicity to daphnia and other aquatic invertebrates	No data available
Pigment Black 33	
Toxicity to fish	LC0: > 1,000 mg/l – Golden orfe
Toxicity to daphnia and other aquatic invertebrates	EC0: > 10,000 mg/l - water flea
Toxicity to Microorganisms	Ec0: > 1,000 mg/l – Pseudomonas putida
Toluene	
Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 74.00 - 340.00 mg/l - 96 h LC50 - Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d LOEC - Pimephales promelas (fathead minnow) - 8.04 mg/l - 7 d
Toxicity to daphnia and other aquatic	EC50 - Daphnia magna (Water flea) - 8.00 mg/l - 24 h

invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 6 mg/l - 48 h
Toxicity to algae	EC50 - Chlorella vulgaris (Fresh water algae) - 245.00 mg/l - 24 h EC50 - Pseudokirchneriella subcapitata (green algae) - 10.00 mg/l - 24 h
Isobutyl Alcohol	
Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) – 1.220 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	No Data Available
Toxicity to algae	No Data Available
Ethylbenzene	
Toxicity to fish	LC50 - Cyprinodon variegatus (sheepshead minnow) - 88.00 mg/l - 96 h LC50 - Lepomis macrochirus (Bluegill) - 80.00 mg/l - 96 h NOEC - Cyprinodon variegatus (sheepshead minnow) - 88 mg/l - 96 h LC50 - Oncorhynchus mykiss (rainbow trout) - 4.2 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 2.90 mg/l - 48 h
Molybdenum disulfide	
Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) – 609 mg Mo/L – 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 1680 mg Mo/l - 48 h

Section 13 – Disposal Considerations

Waste Disposal Method:

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes
Characteristic Waste:
Ignitable: D001
TCLP: D018
State or local laws may impose additional regulatory requirements regarding disposal.

Contaminated Packaging

Dispose of as unused product.

Section 14 – Transportation Information

Hazardous for Shipping:	Yes
Based on 49 CFR, IATA and IMDG:	
UN Number:	UN1263
UN Proper Shipping Name:	Paint
Hazard Class:	3
Packing Group:	III
Labels:	Flammable Liquid
Placards:	Flammable Liquid

Section 15 – Regulations

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710: All hazardous ingredients are on the TSCA Chemical Substance Inventory.

Component	%	CAS Number	SARA 313	SARA 302	New Jersey RTK List	Pennsylvania RTK List	Massachusetts RTK List	California Prop 65 list
Xylene	< 38%	1330-20-7	Yes	Yes	Yes	Yes	Yes	No
Pigment Black 33	< 22%	75864-23-2	Yes	Yes	Yes	No	No	No
Dimethyl, diphenyl, methyl, phenyl silicone resin	< 17%	28630-33-3	No	No	Yes	Yes	No	No
Isobutyl Alcohol	< 21%	78-83-1	No	No	Yes	Yes	Yes	No
Toluene	< 12%	108-88-3	Yes	Yes	Yes	Yes	Yes	Yes
Ethyl benzene	< 5%	100-41-4	Yes	No	Yes	Yes	Yes	Yes
Molybdenum disulfide	< 5%	1317-33-5	No	No	Yes	Yes	Yes	No
Aluminum*	<.25%	7429-90-5			Yes	No	No	No
Magnesium*	<.06%	7439-95-4			Yes	No	No	No
Barium*	<.04%	7440-39-3			Yes	No	No	No
Copper*	<.04%	7440-50-8			Yes	No	No	No
Chromium*	<.03%	7440-47-3			Yes	Yes	Yes	No
Nickel*	<.02%	7440-02-0			No	Yes	Yes	Yes
Arsenic*	<15ppm	7440-38-2			No	No	Yes	No
Cadmium*	<.5 ppm	7440-43-9			No	No	Yes	No
Cobalt*	< .01%	7440-48-4			No	No	No	Yes

* These are a composite of a pigment and do not exist in free state.Please note that these were random sample analyses and content may vary from batch to batch.

SARA 311 / 312 Hazards: Flammable Hazard ,Acute Health Hazard, Chronic Health Hazard

Section 16 – Other Information

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