



SAFETY DATA SHEET

Section 1 – Identification

Product Identifier: Ciloxide Black

Part Number: CXBK

Recommended Use: Exhaust and High Temperature Coating

Restrictions on Use:

Manufacturer / Supplier:

Keep out of reach of children.

Tech Line Coatings, Inc

Not recommended for use on Medical equipment.

PO Box 668, 10840 Chapman Hwy, Seymour, TN

Not recommended for use on Aviation equipment.

37865

USA

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Section 2 – Hazards Identification

Signal Word:

Danger

Symbols:



Hazard Statements:	GHS Classification:	Category
Highly flammable liquid and vapor	Flammable Liquid	2
Harmful in contact with skin	Acute Toxicity Dermal	4
Harmful if inhaled	Acute Toxicity Inhalation	3
Causes skin Irritation	Skin Irritation	2
Causes Eye Irritation	Eye Irritation	4
Suspected of causing genetic defects	Germ Cell Mutagenicity	2
Suspected of causing cancer	Carcinogenicity	2
Suspected of damaging fertility or the unborn child	Toxic to Reproduction	2
May cause damage to organs; brain, liver, kidney, bladder, central nervous system	Specific Target Organ Toxicity Single Exposure	2Harmful
Harmful if swallowed		

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
Tert Butyl Acetate	TBA	540-88-5	< 30%
Copper chromite black spinel		68186-91-7	< 18%
Trade Secret		Trade Secret	< 18%
PARACHLOROBENZOTRIFLUORIDE	PCBTF	98-56-6	< 7%
Xylene		1330-20-7	< 7%
Toluene		108-88-3	< 5%
Ethyl Acetate		141-78-6	< 4%
Ethyl benzene		100-41-4	< 2%
Crystalline silica		14808-60-7	< .1%

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 extreme 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. Protect from oxidizers, inorganic acids, aldehydes, and isocyanates.

Section 8 – Exposure Controls And Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH REL
Tert Butyl Acetate	TWA 200 PPM	TWA 200 PPM	1,500 PPM
PARACHLOROBENZOTRIFLUORIDE	TLV: Not Established	PEL: Not Established	CEL: 25 ppm 8hr TWA
Copper chromite black spinel	Chromium(III) and compounds 0.5 mg/m3 Copper Dusts And Mists 1 mg/m3	Chromium(III) and compounds 0.5 mg/m3 Copper Dusts And Mists 1 mg/m3	No data available
Xylene	TLV: 100 ppm TWA: 150 ppm	TWA: 100 ppm	100 ppm 10 hour shift 200 ppm 10 minutes
Toluene	TWA: 50 ppm	TWA: 300 ppm	STEL: 150 ppm TWA: 100 ppm
Ethyl Acetate	TWA 400 ppm	TWA 400 ppm	TWA 400 ppm
Ethyl benzene	TLV: 100 ppm TWA: 125 ppm	TWA: 100 ppm	TWA: 100 ppm
Crystalline silica	Respirable fraction TWA 0.01 ppm	10 mg/m3	0.05 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 :	> 26° 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	No data available on mixture
Total VOC	< 102.6 g/l (less PCBTF)

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	Harmful if swallowed
Skin	Harmful in contact with skin. Causes skin irritation.

Eyes

Causes eye irritation

Acute Toxicity

TBA	Oral LD50	LD50 Oral - rat - 4,100 mg/kg Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Ataxia. Lungs, Thorax, or Respiration:Dyspnea.
	Inhalation LC50	LC50 Inhalation - rat - 4 h - > 2,230 mg/m3
	Dermal LD50	LD50 Dermal - rabbit - > 2,000 mg/kg Remarks: Diarrhoea Kidney, Ureter, Bladder:Other changes.
Trade Secret	Oral LD50	LD50 Oral - rat - > 5000 mg/kg
	Inhalation LC50	No data available
	Dermal LD50	No data available
Copper chromite black spinel	Oral LD50	LD50 Oral - rat - > 10000 mg/kg
	Inhalation LC50	LD50 Inhalation - rat - 4 h - >11.1 mg/l
	Dermal LD50	No data available
PCBTF	Oral LD50	LD50 Oral - rat - 13,000 mg/kg
	Inhalation LC50	No data available
	Dermal LD50	No data available
Xylene	Oral LD50	No data available
	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
Ethyl Acetate	Oral LD50	LD50 Oral - rat - 5,620 mg/kg
	Inhalation LC50	LC50 Inhalation - mouse - 2 h - 45,000 mg/m3
	Dermal LD50	LD50 Dermal - rabbit - > 180,000 mg/kg
Ethyl benzene	Oral LD50	No data available
	Inhalation LC50	No data available
	Dermal LD50	LD50 Dermal - rabbit - 15,433 mg/kg
Crystalline silica	Oral LD50	No data available
	Inhalation LC50	No data available
	Dermal LD50	No data available

Skin Corrosion/Irritation

TBA

Skin - rabbit - Mild skin irritation

Toluene

Skin - rabbit - Skin irritation - 24 h

Serious Eye Damage/Eye Irritation

TBA

Eyes - rabbit - Mild eye irritation

Respiratory Or Skin Sensitization

No data available

Germ Cell Mutagenicity

PCBTF

Genotoxicity in vitro - Human - Embryo

Unscheduled DNA synthesis

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.

Reproductive Toxicity

No data available

Specific Target Organ Toxicity Single Exposure

PCBTF

Inhalation - May cause respiratory irritation.

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

Ethyl Acetate

May cause drowsiness or dizziness.

Specific Target Organ Toxicity Repeated Or Prolonged Exposure

No data available

Aspiration Hazard

Not Classified

Section 12 – Ecological Information

General Comments:

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

Environmental Toxicity:

TBA

Toxicity to fish

LC50 - Pimephales promelas (fathead minnow) - 296 - 362 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates	No data available
Trade Secret	
Toxicity to fish	LC0: >1,000 mg/l (Golden orfe (<i>Leuciscus idus</i>))
Toxicity to daphnia and other aquatic invertebrates	EC0 - <i>Daphnia magna</i> (Water flea) – 10,000 mg/l - 48 h
Copper chromite black spinel	
Toxicity to fish, daphnia and other aquatic invertebrates	No Data Available
PCBTF	
Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Xylene	
Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toluene	
Toxicity to fish	LC50 - <i>Lepomis macrochirus</i> (Bluegill) - 74.00 - 340.00 mg/l - 96 h LC50 - <i>Oncorhynchus mykiss</i> (rainbow trout) - 7.63 mg/l - 96 h NOEC - <i>Pimephales promelas</i> (fathead minnow) - 5.44 mg/l - 7 d LOEC - <i>Pimephales promelas</i> (fathead minnow) - 8.04 mg/l - 7 d
Toxicity to daphnia and other aquatic invertebrates	EC50 - <i>Daphnia magna</i> (Water flea) - 8.00 mg/l - 24 h Immobilization EC50 - <i>Daphnia magna</i> (Water flea) - 6 mg/l - 48 h
Toxicity to algae	EC50 - <i>Chlorella vulgaris</i> (Fresh water algae) - 245.00 mg/l - 24 h EC50 - <i>Pseudokirchneriella subcapitata</i> (green algae) - 10.00 mg/l - 24 h
Ethyl Acetate	
Toxicity to fish	LC50 - <i>Oncorhynchus mykiss</i> (rainbow trout) - 350.00 - 600.00 mg/l - 96 h LC50 - <i>Pimephales promelas</i> (fathead minnow) - 220.00 - 250.00 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - <i>Daphnia magna</i> (Water flea) - 2,300.00 - 3,090.00 mg/l - 24 h LC50 - <i>Daphnia magna</i> (Water flea) - 560 mg/l - 48 h
Toxicity to algae	EC50 - Algae - 4,300.00 mg/l - 24 h EC50 - SELENASTRUM - 1,800.00 - 3,200.00 mg/l - 72 h
Ethylbenzene	
Toxicity to fish	LC50 - <i>Cyprinodon variegatus</i> (sheepshead minnow) - 88.00 mg/l - 96 h LC50 - <i>Lepomis macrochirus</i> (Bluegill) - 80.00 mg/l - 96 h NOEC - <i>Cyprinodon variegatus</i> (sheepshead minnow) - 88 mg/l - 96 h LC50 - <i>Oncorhynchus mykiss</i> (rainbow trout) - 4.2 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - <i>Daphnia magna</i> (Water flea) - 2.90 mg/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: II

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 304	New Jersey RTK List	Pennsylvania RTK List	Massachusetts RTK List	California Prop 65 list
Xylene	< 7%	1330-20-7	Yes	Yes	Yes	Yes	Yes	
Dimethyl, diphenyl, methyl, phenyl silicone resin	< 17%	28630-33-3			Yes	Yes		
Toluene	< 5%	108-88-3	Yes	Yes	Yes	Yes	Yes	Yes
Ethyl benzene	< 2%	100-41-4	Yes		Yes	Yes	Yes	Yes
Trade Secret	< 18%	Trade Secret	Yes		Yes			
Aluminum*	< .17%	7429-90-5			Yes			
Magnesium*	< .04%	7439-95-4			Yes			
Barium*	< .02%	7440-39-3			Yes			
Copper*	< .02%	7440-50-8			Yes			
Chromium*	< .015%	7440-47-3			Yes	Yes	Yes	
Nickel*	< .01%	7440-02-0				Yes	Yes	Yes
Arsenic*	< 10 PPM	7440-38-2					Yes	
Cadmium*	< .3 PPM	7440-43-9					Yes	
Cobalt*	< .005%	7440-48-4						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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