

TECH LINE Coatings

SAFETY DATA SHEET

Section 1 – Identification

Product Identifier: Ciloxide Blue

Part Number: CXBL

Recommended Use: Exhaust Coating

Restrictions on Use:

Manufacturer / Supplier:

Tech Line Coatings, Inc
26844 ADAMS AVE.
MURRIETA, CA 92562
USA
Phone/Fax 1-865-773-0599

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

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: | GHS Classification: | Category |
|--------------------------------------|---------------------------|----------|
| Highly flammable liquid and vapor | Flammable Liquid | 2 |
| Harmful if swallowed | Acute Toxicity Oral | 4 |
| Harmful in contact with skin | Acute Toxicity Dermal | 4 |
| Harmful if inhaled | Acute Toxicity Inhalation | 3 |
| Causes skin Irritation | Skin Irritation | 2 |
| Causes Serious Eye Damage | Eye Damage | 2 |
| May cause and allergic skin reaction | Skin Sensitization | 3 |
| Suspected of causing genetic defects | Germ Cell Mutagenicity | 2 |
| Suspected of causing cancer | Carcinogenicity | 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. Contaminated work clothing must not be allowed out of the workplace.

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

If on skin or hair: wash with plenty of water. Call a poison center / doctor if you feel unwell or if irritation or rash occurs.

Take off 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 | TBAc | 540-88-5 | > 25% |
| Titanium Dioxide | TiO2 | 13463-67-7 | < 9% |
| Xylene | | 1330-20-7 | < 7% |
| PARACHLOROBENZOTRIFLUORIDE | PCBTF | 98-56-6 | < 7% |
| Toluene | | 108-88-3 | < 5% |
| Ethyl Acetate | | 141-78-6 | < 4% |
| Ethyl benzene | | 100-41-4 | < 2% |
| Crystalline silica | | 14808-60-7 | < 0.1% |

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 |
| TiO2 | 10 mg/m3 (inspirable dust) | 15 mg/m3 (total dust) | 2.4 mg/m3 (fine particles) |
| Xylene | TLV: 100 ppm TWA: 150 ppm | TWA: 100 ppm | 100 ppm 10 hour shift 200 ppm 10 minutes |
| PARACHLOROBENZOTRIFLUORIDE | TLV: Not Established | PEL: Not Established | CEL: 25 ppm 8hr TWA |
| 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 : | Blue |
| 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 | 11.07 lbs per gallon |
| 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 | < 150 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 | Harmful if swallowed. |
| Skin | Harmful in contact with skin. Causes skin irritation. May cause and allergic skin reaction |
| Eyes | Causes Serious Eye Irritation |

Acute Toxicity

| | | |
|------|-----------|---|
| TBAc | 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. |
| Titanium Dioxide | Oral LD50 | ALD/rat : > 24,000 mg/kg |
| | Inhalation LC50 | ALC/4 h/rat : > 6.82 mg/l |
| | Dermal LD50 | ALD/rabbit : > 10,000 mg/kg |
| Xylene | Oral LD50 | No data available |
| | Inhalation LC50 | No data available |
| | 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 |
| 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

TBAc

Skin - rabbit - Mild skin irritation

Toluene

Skin - rabbit - Skin irritation - 24 h

TiO2

Skin - Human - Mild skin irritation - 3 h

Xylene

Standard Draize Test: Administration onto the skin (rabbit) = 500 mg (Moderate).

PCBTF

In skin irritation studies, the compound was found to be slightly to moderately irritating.

All other

No data available

Serious Eye Damage/Eye Irritation

TBAc

Eyes - rabbit - Mild eye irritation

Xylene

Standard Draize Test: Administration into the eye (rabbit) = 5 mg/24H (Severe).

PCBTF

In eye irritation studies, the compound was found to be slightly to moderately irritating.

All other

No data available

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

TiO₂

Genotoxicity in vitro - Hamster - ovary

Micronucleus test

Genotoxicity in vitro - Hamster - Lungs

DNA inhibition

Genotoxicity in vitro - Hamster - ovary

Sister chromatid exchange

Genotoxicity in vivo - mouse - Intraperitoneal

Micronucleus test

All other

No data available

Carcinogenicity

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Ethylbenzene, TiO₂, COBALT PHOSPHATE(as cobalt compounds))

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.

TiO₂

Carcinogenicity - rat - Inhalation

Tumorigenic:Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors.

Carcinogenicity - rat - Intramuscular

Tumorigenic:Neoplastic by RTECS criteria. Blood:Lymphomas including Hodgkin's disease. Tumorigenic:Tumors at site or application.

Reproductive Toxicity

Xylene

There is ample evidence that xylene produces embryotoxicity (reduced body weight, retarded ossification, retarded kidney development, increased extra rib) and fetotoxicity in mice and rats, but xylene is not considered teratogenic.

PCBTF

In a two-generation reproduction study rats were exposed daily via oral gavage at doses of 0, 5, 15, and 45 mg/kg. Only limited reproductive effects were noted.

Toluene

Reproductive toxicity - rat - Inhalation

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

Experiments have shown reproductive toxicity effects in male and female laboratory animals.

All other

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.

All other

No data available

Specific Target Organ Toxicity Repeated Or Prolonged Exposure

Xylene

Chronic exposure to xylene may cause defatting dermatitis, reversible eye damage, dyspnea (labored breathing), confusion, dizziness, apprehension, memory loss, headache, tremors, weakness, anorexia, nausea, ringing in the ears, irritability, thirst, mild changes in liver function, kidney impairment, anemia, and hyperplasia, but not destruction, of the bone marrow.

Crystalline silica

Inhalation - May cause damage to organs through prolonged or repeated exposure.

All other

No data available

Aspiration Hazard

No data

Section 12 – Ecological Information

General Comments:

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

Environmental Toxicity:

TBAc

Toxicity to fish

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

Toxicity to daphnia and other aquatic invertebrates

No data available

TiO2

Toxicity to fish

LC50/96 h/Fathead minnow: > 1,000 mg/l

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 |
| PCBTf | | |
| | Toxicity to fish | No data available |
| | Toxicity to daphnia and other aquatic invertebrates | No data available |
| 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 invertebrates | EC50 - Daphnia magna (Water flea) - 8.00 mg/l - 24 h 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 |
| Ethyl Acetate | | |
| | Toxicity to fish | LC50 - Oncorhynchus mykiss (rainbow trout) - 350.00 - 600.00 mg/l - 96 h LC50 - Pimephales promelas (fathead minnow) - 220.00 - 250.00 mg/l - 96 h |
| | Toxicity to daphnia and other aquatic invertebrates | EC50 - Daphnia magna (Water flea) - 2,300.00 - 3,090.00 mg/l - 24 h LC50 - Daphnia magna (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 - 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 |
| Crystalline silica | | |
| | Toxicity to fish | No data available |
| | Toxicity to daphnia and other aquatic invertebrates | No data available |

Bioaccumulative Potential
No data available on mixture

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 302 | New Jersey RTK List | Pennsylvania RTK List | Massachusetts RTK List | California Prop 65 list |
|---|--------|------------|----------|----------|---------------------|-----------------------|------------------------|-------------------------|
| Tert Butyl Acetate | > 25% | 540-88-5 | No | No | Yes | Yes | Yes | No |
| Dimethyl, diphenyl, methyl, phenyl silicone resin | < 17% | 28630-33-3 | No | No | Yes | Yes | No | No |
| Titanium Dioxide | < 9% | 13463-67-7 | No | No | Yes | Yes | Yes | No |
| Xylene | < 7% | 1330-20-7 | Yes | Yes | Yes | Yes | Yes | No |
| PCBTF | < 7% | 98-56-6 | No | No | Yes | Yes | No | No |
| Toluene | < 5% | 108-88-3 | Yes | Yes | Yes | Yes | Yes | Yes |
| Ethyl Acetate | < 4% | 141-78-6 | No | No | Yes | Yes | Yes | No |
| Ethyl benzene | < 2% | 100-41-4 | Yes | No | Yes | Yes | Yes | Yes |
| Crystalline silica | < 0.1% | 14808-60-7 | No | No | Yes | Yes | Yes | Yes |

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

Section 16 – Other Information

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