

## Aloseal 610 CC-1 Blue

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Aloseal 610 CC-1 Blue  
**Common Name:** Dissolved metal complex/inorganic pigment compound  
**SDS Number:** A51  
**Revision Date:** 5/28/2015  
**Version:** 1  
**Chemical Family:** Alkali Metal Silicate  
**Product Description:** Water Base Inorganic Coating  
**Product Use:** Air dry touch up for Aloseal  
**Supplier Details:** Coatings for Industry, Inc.  
 319 Township Line Road  
 Souderton, PA 18964

**Emergency:** Infotrac  
**Contact:** USA: 1-800-535-5053 / International :352-323-3500  
**Phone:** 215-723-0919  
**Fax:** 215-723-0911  
**Email:** cs@cficoatings.com  
**Web:** www.cficoatings.com

## 2 HAZARDS IDENTIFICATION

## Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**  
 no GHS classifications indicated

## GHS Label elements, including precautionary statements

**GHS Signal Word:** NONE

no GHS pictograms indicated for this product

## GHS Hazard Statements:

no GHS hazards statements indicated

## GHS Precautionary Statements:

P201 - Obtain special instructions before use.  
 P233 - Keep container tightly closed.  
 P262 - Do not get in eyes, on skin, or on clothing.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P353 - Rinse skin with water/shower.  
 P362 - Take off contaminated clothing and wash before reuse.  
 P404 - Store in a closed container.

## 3 COMPOSITION/INFORMATION OF INGREDIENTS

## Ingredients:

Cas#	%	Chemical Name
7732-18-5	40-80%	Water
1312-76-1	5-15%	Silicic acid, potassium salt
1345-16-0	10-15%	C.I. Pigment Blue 28
13463-67-7	5-15%	Titanium oxide (TiO <sub>2</sub> )
68186-91-4	0-5%	C.I. Pigment Black 28
68187-11-1	0-10%	C.I. Pigment Blue 36

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**4 FIRST AID MEASURES**

- Inhalation:** If inhaled, remove to fresh air. Get immediate medical attention.
- Skin Contact:** Remove contaminated clothing and footwear immediately, and wash before reuse. Discard clothing and footwear which cannot be decontaminated.  
Promptly flush skin with water until all chemical is removed.  
Get medical attention if irritation develops and persists.
- Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.  
Then remove contact lenses, if easily removeable, and continue irrigation for not less than 15 minutes. Get immediate medical attention.
- Ingestion:** Do not induce vomiting. Rinse mouth with water. Give 200-300 ml (8 oz.) of water to drink. Get prompt, qualified medical attention.

**5 FIRE FIGHTING MEASURES**

- Flash Point:** Not Applicable
- Extinguishing Media -** Use sand or carbon dioxide (CO<sub>2</sub>).
- Special Fire Fighting Procedures -** Do not use extinguishing media containing water as a reaction with aluminum may produce hydrogen gas. Wear protective clothing and NIOSH/OSHA approved positive pressure self contained breathing apparatus in fire conditions.
- Unusual Fire and Explosion Hazards -** If material is allowed to evaporate to produce dry aluminum, the aluminum can then react with water to produce hydrogen gas.

**6 ACCIDENTAL RELEASE MEASURES**

**NOTE:** Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate personal protective equipment during clean-up. Spilled material is a slipping hazard.

**Spill Clean Up**

Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

**Disposal Considerations:**

Preferred options for disposal are: (1) Separate solids from liquid by precipitation and decanting or filtering. Dispose of dry solids in a landfill that is permitted, licensed or registered by a state to manage industrial solid waste. Discharge liquid filtrate to a wastewater treatment system. (2) Incinerate only if incinerator is capable of scrubbing out hydrogen fluoride and other acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

**7 HANDLING AND STORAGE**

**Handling Precautions:** Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Consider normal working hygiene. Launder contaminated clothing. Wash thoroughly after handling.

**Storage Requirements:** Protect from freezing.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Engineering Controls:** Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.
- Personal Protective Equipment:** Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Components with workplace control parameters

#### C.I. Pigment Black 28 (Copper Chromite Black Spinel) (68189-91-4)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):  
CHROMIUM (III) AND COMPOUNDS: (PEL) 1 mg/m<sup>3</sup> (as Cr)  
COPPER DUSTS AND MISTS (PEL) 1 mg/m<sup>3</sup> (as Cu) Dust and mist.  
0.1 mg/m<sup>3</sup> (as Cu) Fume.

US. ACGIH Threshold Limit Values:  
CHROMIUM (III) AND COMPOUNDS: (TWA) 0.5 mg/m<sup>3</sup> (as Cr)  
COPPER DUSTS AND MISTS: (TWA) 1 mg/m<sup>3</sup> (as Cu) Dust and mist.  
0.2 mg/m<sup>3</sup> (as Cu) Fume.

US. NIOSH: Pocket Guide to Chemical Hazards:  
CHROMIUM (III) AND COMPOUNDS (TWA) 0.5 mg/m<sup>3</sup> (as Cr)  
COPPER DUSTS AND MISTS (TWA) 1 mg/m<sup>3</sup> (as Cu) Dust and mist

#### C.I. Pigment Blue 28 (COBALT ALUMINATE BLUE SPINEL) (1345-16-0)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):  
COBALT METAL, DUST AND FUMES (PEL) 0.1 mg/m<sup>3</sup> (as Co) Dust and fume

US. ACGIH Threshold Limit Values:  
COBALT METAL, DUST AND FUMES (TWA) 0.02 mg/m<sup>3</sup> (as Co)

US. NIOSH: Pocket Guide to Chemical Hazards:  
COBALT METAL, DUST AND FUMES (TWA) 0.05 mg/m<sup>3</sup> (as Co) Dust and fume

#### CI Pigment Blue 36 (COBALT CHROMITE BLUE-GREEN SPINEL) (61187-11-1)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):  
CHROMIUM (III) AND COMPOUNDS (PEL) 1 mg/m<sup>3</sup> (as Cr)  
COBALT METAL, DUST AND FUMES (PEL) 0.1 mg/m<sup>3</sup> (as Co)  
ZINC COMPOUNDS (PEL) NONE (as Zn)

US. ACGIH Threshold Limit Values:  
CHROMIUM (III) AND COMPOUNDS (TWA) 0.5 mg/m<sup>3</sup> (as Cr)  
COBALT METAL, DUST AND FUMES (TWA) 0.02 mg/m<sup>3</sup> (as Co) Dust and fume.  
ZINC COMPOUNDS (PEL) NONE (as Zn)

US. NIOSH: Pocket Guide to Chemical Hazards:

CHROMIUM (III) AND COMPOUNDS (TWA) 0.5 mg/m<sup>3</sup> (as Cr)  
COBALT METAL, DUST AND FUMES (TWA) 0.05 mg/m<sup>3</sup> (as Co) Dust and fume.  
ZINC COMPOUNDS (PEL) NONE (as Zn)

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## Titanium Dioxide (13463-67-7)

PEL: (OSHA) 15 mg/m<sup>3</sup> 8 hr. TWA Total dust.

TLV : (ACGIH) 10 mg/m<sup>3</sup> TWA

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Appearance:</b> Blue <b>Physical State:</b> Liquid <b>Spec Grav./Density:</b> 1.55 <b>Boiling Point:</b> 212 F <b>pH:</b> 11	<b>Odor:</b> No distinct odor <b>Percent Volatile:</b> 80-85% by volume <b>Freezing/Melting Pt.:</b> 32 F
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<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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<b>Chemical Stability:</b>	Product is stable under normal conditions.
<b>Materials to Avoid:</b>	Strong Acids; Strong Bases.
<b>Hazardous Decomposition:</b>	Not known.
<b>Hazardous Polymerization:</b>	Will not occur.

<b>11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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## Silicic acid, potassium salt (1312-76-1)

**Acute toxicity**

Ingestion All symptoms of acute toxicity are due to high alkalinity. Material will cause irritation. Oral LD<sub>50</sub> (rat) >5000 mg/kg bw  
 Inhalation All symptoms of acute toxicity are due to high alkalinity. Mist is irritant to the respiratory tract. Inhalation LC<sub>50</sub> (rat) >2.06 g/m<sup>3</sup>  
 Skin Contact Repeated and/or prolonged skin contact may cause slight irritation. Dermal LD<sub>50</sub> (rat) >5000 mg/kg bw  
 Eye Contact Liquid or mist may cause discomfort and mild irritation.

**Skin corrosion/irritation**

Repeated and/or prolonged skin contact may cause slight irritation.

**Serious eye damage/irritation** Liquid or mist may cause discomfort and mild irritation.

**Sensitisation** Not sensitising.

**Mutagenicity** No evidence of genotoxicity. In vitro/in vivo negative.

**Carcinogenicity** No structural alerts.

**Reproductive toxicity** No evidence of reproductive toxicity or developmental toxicity.

**STOT - single exposure** Not classified

**STOT - repeated exposure** Not classified. NOAEL oral (rat) 159 mg/kg bw/d

**Aspiration hazard** Not classified

**C.I. Pigment Black 28 (Copper Chromite Black Spinel) (68189-91-4)**

Information on toxicological effects

Acute toxicity:

Inhalation: LD<sub>50</sub> (Rat) > 11.1 mg/l Shepherd Color Test Data

Oral: LD<sub>50</sub> (Rat) > 10000 mg/kg Shepherd Color Test Data

Dermal: no data available

Skin corrosion/irritation: Contact with skin may cause irritation.

Serious eye damage/eye irritation: May irritate eyes.

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

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### Carcinogenicity:

IARC: CHROMIUM COMPOUND (CAS 7440-47-3) 3 Not classifiable as to carcinogenicity to humans.

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 known or anticipated 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.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

### Additional Information:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### C.I. Pigment Blue 28 (COBALT ALUMINATE BLUE SPINEL) (1345-16-0)

#### Information on toxicological effects

##### Acute toxicity:

Inhalation: LD50 (Rat) > Not Tested

Oral: LD50 (Rat) > 10000 mg/kg Shepherd Color Test Data

Dermal: no data available

Skin corrosion/irritation: Contact with skin may cause irritation.

Serious eye damage/eye irritation: May irritate eyes.

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

##### Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

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 known or anticipated 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.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

### Additional Information:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### CI Pigment Blue 36 (COBALT CHROMITE BLUE-GREEN SPINEL) (61187-11-1)

#### Information on toxicological effects

##### Acute toxicity:

Inhalation: LD50 (Rat) > Not Tested

Oral: LD50 (Rat) > 10000 mg/kg Shepherd Color Test Data

Dermal: no data available

Skin corrosion/irritation: Contact with skin may cause irritation.

Serious eye damage/eye irritation: May irritate eyes.

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

##### Carcinogenicity:

IARC: CHROMIUM COMPOUND (CAS 7440-47-3) 3 Not classifiable as to carcinogenicity to humans.

COBALT COMPOUND (CAS 7440-48-4) 2B Possibly carcinogenic to humans

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 known or anticipated carcinogen

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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.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Titanium Dioxide (13463-67-7)**

Inhalation 4 h LC50 : > 6.82 mg/l , Rat

Dermal LD50 : > 10,000 mg/kg , Rabbit

Oral LD50 : > 5,000 mg/kg , Rat

Skin irritation : Slight or no skin irritation, Rabbit

Eye irritation : Slight or no eye irritation, Rabbit

Sensitisation : Did not cause sensitisation on laboratory animals., Mouse

Did not cause sensitisation on laboratory animals., Guinea pig

Repeated dose toxicity : Oral Rat: No toxicologically significant effects were found.

Inhalation Rat: No toxicologically significant effects were found.

Carcinogenicity : In lifetime inhalation studies rats were exposed for 2 years to respectively 10, 50 and 250 mg/m<sup>3</sup> of respirable TiO<sub>2</sub>. Slight lung fibrosis was observed at 50 and 250 mg/m<sup>3</sup> levels. Microscopic lung tumours were also observed in 13 percent of the rats exposed to 250 mg/m<sup>3</sup>, an exposure level that caused lung overloading and impairment of rat lungs clearance mechanisms. In further studies, these tumours were found to occur only under particle overload conditions in a uniquely sensitive species, the rat, and have little or no relevance for humans. The pulmonary inflammatory response to TiO<sub>2</sub> particles exposure was also found to be much more severe in rats than in other rodent species. In February 2006, IARC has re-evaluated Titanium dioxide as pertaining to Group 2B: "possibly carcinogenic to humans", based upon inadequate evidence in humans and sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide. IARC evaluation guidelines consider the generation of tumours, in 2 different studies within the same animal species, to be adequate criteria for an assessment of sufficient evidence. The conclusions of several epidemiology studies on more than 20000 TiO<sub>2</sub> industry workers in Europe and the USA did not suggest a carcinogenic effect of TiO<sub>2</sub> dust on the human lung. Mortality from

other chronic diseases, including other respiratory diseases, was also not associated with exposure to TiO<sub>2</sub> dust. Based upon all available study results, DuPont scientists conclude that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experienced in the workplace.

Mutagenicity : Did not cause genetic damage in animals.

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

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**ECOLOGICAL INFORMATION****Silicic acid, potassium salt (1312-76-1)**

Toxicity

Fish (Leuciscus idus) LC50 (48 hour) >146 mg/l

Aquatic invertebrates: (Daphnia magna) EC50 (24 hour) >146 mg/l

Persistence and degradability: Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.

Bioaccumulative potential: Inorganic. The substance has no potential for bioaccumulation.

Mobility in soil: Not applicable.

Results of PBT and vPvB assessment: Not classified as PBT or vPvB.

Other adverse effects: The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

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**C.I. Pigment Black 28 (Copper Chromite Black Spinel) (68189-91-4)**

Ecotoxicity: Not expected to be harmful to aquatic organisms.  
 Persistence and degradability: The product is not expected to be biodegradable.  
 Bioaccumulative potential: The product does not contain any substances expected to be bioaccumulating.  
 Mobility in soil: No data available.  
 Mobility in general: No data available.  
 Other adverse effects: None known.

**C.I. Pigment Blue 28 (COBALT ALUMINATE BLUE SPINEL) (1345-16-0)**

Ecotoxicity: Not expected to be harmful to aquatic organisms.  
 Persistence and degradability: The product is not expected to be biodegradable.  
 Bioaccumulative potential: The product does not contain any substances expected to be bioaccumulating.  
 Mobility in soil: No data available.  
 Mobility in general: No data available.  
 Other adverse effects: None known.

**CI Pigment Blue 36 (COBALT CHROMITE BLUE-GREEN SPINEL) (61187-11-1)**

Ecotoxicity: Not expected to be harmful to aquatic organisms.  
 CHROMIUM COMPOUND (CAS 7440-47-3)  
     EC50 Crustacea, Water flea (Daphnia magna) 0.01 % 0.7 mg/l, 48 hour  
     LC50 Fish, Carp (Cyprinus carpio) 14.3 mg/l, 96 hours  
 ZINC COMPOUND (CAS 7440-66-6)  
     EC50 Crustacea, Water flea (Daphnia magna) 2.8 mg/l, 48 hours  
     LC50 Fish Rainbow trout, donaldson trout (Oncorhynchus mykiss) 0.56 mg/l, 96 hours  
 Persistence and degradability: The product is not expected to be biodegradable.  
 Bioaccumulative potential: The product does not contain any substances expected to be bioaccumulating.  
 Mobility in soil: No data available.  
 Mobility in general: No data available.  
 Other adverse effects: None known.

**Titanium Dioxide (13463-67-7)**

96 h LC50: Pimephales promelas (fathead minnow) > 1,000 mg/l  
 72 h EC50 : Pseudokirchneriella subcapitata (green algae) 61 mg/l  
 48 h EC50: Daphnia magna (Water flea) > 1,000 mg/l  
 Biodegradability : Pigments are practically not biodegradable.  
 Bioaccumulation : Does not bioaccumulate.

<b>13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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Waste Disposal Method  
 Waste disposal should be in accordance with existing federal, state and local environmental control laws  
 .  
 Empty Container Precautions  
 Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

<b>14</b>	<b>TRANSPORT INFORMATION</b>
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Shipping Name: Class 55, Paint  
 Non-hazardous for air, sea and road freight.

<b>15</b>	<b>REGULATORY INFORMATION</b>
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Component (CAS#) [%] - CODES

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 Water (7732-18-5) [40-80%] TSCA

Silicic acid, potassium salt (1312-76-1) [5-15%] TSCA

C.I. Pigment Blue 28 (1345-16-0) [10-15%] SARA313, TSCA

Titanium oxide (TiO<sub>2</sub>) (13463-67-7) [5-15%] MASS, OSHAWAC, PA, TSCA, TXAIR

C.I. Pigment Black 28 (68186-91-4) [0-5%] TSCA

C.I. Pigment Blue 36 (68187-11-1) [0-10%] TSCA

Regulatory CODE Descriptions

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 TSCA = Toxic Substances Control Act  
 SARA313 = SARA 313 Title III Toxic Chemicals  
 MASS = MA Massachusetts Hazardous Substances List  
 OSHAWAC = OSHA workplace Air Contaminants  
 PA = PA Right-To-Know List of Hazardous Substances  
 TXAIR = TX Air Contaminants with Health Effects Screening Level

<b>16</b>	<b>OTHER INFORMATION</b>
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**NOTICE:** This information is presented in good faith and believed to be accurate as of the effective date below. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Coatings For Industry, Inc. assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material. Regulatory requirements are subject to change and may differ from one location to another: it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The preceding specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.