

## Aalseal 5KTC Blue Part A

**1** **PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** Aalseal 5KTC Blue Part A  
**Common Name:** Acid Phosphate solution  
**SDS Number:** A100  
**Revision Date:** 3/11/2016  
**Version:** 1  
**Chemical Family:** Acid  
**Supplier Details:** Coatings for Industry, Inc.  
319 Township Line Road  
Souderton, PA 18964

**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):**

Physical, Corrosive to Metals, 1  
Health, Acute toxicity, 5 Oral  
Health, Acute toxicity, 5 Dermal  
Health, Skin corrosion/irritation, 1 B  
Health, Serious Eye Damage/Eye Irritation, 1  
Health, Acute toxicity, 5 Inhalation

**GHS Label elements, including precautionary statements****GHS Signal Word:** DANGER**GHS Hazard Pictograms:****GHS Hazard Statements:**

H290 - May be corrosive to metals  
H303 - May be harmful if swallowed  
H313 - May be harmful in contact with skin  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H333 - May be harmful if inhaled

**GHS Precautionary Statements:**

P201 - Obtain special instructions before use.  
P234 - Keep only in original container.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P284 - Wear respiratory protection.  
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

## Alseal 5KTC Blue Part A

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
 P310 - Immediately call a POISON CENTER or doctor/physician.  
 P363 - Discard contaminated clothing or wash before reuse.  
 P390 - Absorb spillage to prevent material damage.  
 P501 - Dispose of contents/container to licensed hazardous waste disposal service.

<b>3</b>	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
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**Ingredients:**

Cas#	%	Chemical Name
7732-18-5	60-70%	Water
7631-86-9	0-2%	Silica, amorphous
1345-16-0	5-10%	C.I. Pigment Blue 28
7664-38-2	20-25%	Phosphoric acid

<b>4</b>	<b>FIRST AID MEASURES</b>
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**Inhalation:** If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. Give oxygen or artificial respiration if needed. Get immediate medical attention.

**Skin Contact:** Remove contaminated clothing and footwear and wash before reuse. Discard clothing and footwear which cannot be decontaminated.

**Eye Contact:** Wash with soap and water for at least 15 minutes. Get medical attention if needed or irritation develops. Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Washing eyes within one minute is essential to achieve maximum effectiveness. Get immediate medical attention.

**Ingestion:** Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Drink large quantities of water. If available, give several glasses of milk. Follow with milk of magnesia. If vomiting occurs spontaneously, keep airway clear and give more water. Seek immediate medical attention.

## Aseal 5KTC Blue Part A

**5 FIRE FIGHTING MEASURES**

**Flammability:** Non-Flammable  
**Flash Point:** N/A  
**LEL:** N/A  
**UEL:** N/A

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Oxides of phosphorus.

**Extinguishing Media:**

Use Sand or Carbon Dioxide (CO<sub>2</sub>)

**Special Fire Fighting Procedures:**

Wear protective clothing and NIOSH/OSHA approved positive pressure self contained breathing apparatus in fire conditions.

**Unusual Fire or Explosion Hazards:**

Avoid contact with alkalis, strong reducing or oxidizing agents.

**Advice for firefighters:**

Wear positive pressure self-contained breathing apparatus (SCBA).

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

Keep unauthorized personnel away.

Evacuate residents who are downwind of fire.

Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation.

**6 ACCIDENTAL RELEASE MEASURES**

Evacuate nonessential personnel. Avoid contact with eyes.

Do not discharge into drains.

Use sawdust, vermiculite, Fuller's Earth or other absorbent material to soak up spill then neutralize with sodium bicarbonate. Then flush area with water. Dispose of wash water as hazardous waste. Do not use strong alkalis.

**Waste Disposal Method:**

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. This material is considered an EPA hazardous waste. EPA "RCRA" Hazardous Waste Code: "C" Corrosive.

**7 HANDLING AND STORAGE**

**Handling Precautions:** Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Launder contaminated clothing. Wash clothing before reuse and decontaminate or discard contaminated shoes. Wash thoroughly after handling.

Employee education and training in the safe use and handling of this product is required under the OSHA Hazard Communication Standard.

**Storage Requirements:** Store in area where it will not come into contact with strong alkalis or oxidizing agents. Protect from freezing.

Aseal 5KTC Blue Part A

<b>8</b>	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**Engineering Controls:** All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

**Personal Protective Equipment:** Personal protective equipment

Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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).

Control of environmental exposure: Do not let product enter drains.

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. Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M) Splash contact data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Skin and body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

No specific data on substance.

Components with workplace control parameters

**Phosphoric acid (7664-38-2)**

TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
STEL	3 ppm	USA. ACGIH Threshold Limit Values (TLV)

Eye, skin, & Upper Respiratory Tract irritation

TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
TWA	1 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
STEL	3 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
ST	3 mg/m3	USA. NIOSH Recommended Exposure Limits

**Silica, amorphous (7631-86-9)**

## Aseal 5KTC Blue Part A

TWA 6 mg/m<sup>3</sup> USA. NIOSH Recommended Exposure Limits

TWA 20 Million particles per cubic foot of air  
USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

Millions of particles per cubic foot of air, based on impinger samples counted by light-field techniques.  
mppcf X 35.3 = million particles per cubic meter = particles per c.c

TWA 0.8mg/m<sup>3</sup> / USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts  
The exposure limit is calculated from the equation, 80/(%SiO<sub>2</sub>), using a value of 100% SiO<sub>2</sub>. Lower values of % SiO<sub>2</sub> will give higher exposure limits.

**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

9

**PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Blue	<b>Odor:</b>	No odor
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Appreciable
<b>Spec Grav./Density:</b>	1.40-1.60	<b>Percent Volatile:</b>	80-90% (by volume)
<b>Boiling Point:</b>	212 F	<b>Flash Point:</b>	N/A
<b>Flammability:</b>	Non-Flammable	<b>VOC:</b>	0 g/L
<b>pH:</b>	2.0 to 3.0		

10

**STABILITY AND REACTIVITY**

**Chemical Stability:** Product is stable under normal conditions  
**Materials to Avoid:** Alkalis, Strong Oxidizing Agents, Strong Reducing agents.  
**Hazardous Decomposition:** Not known.  
**Hazardous Polymerization:** Will not occur.

11

**TOXICOLOGICAL INFORMATION****Silica, amorphous (7631-86-9)**

Information on toxicological effects

Acute toxicity: Oral LD<sub>50</sub> >5000mg/kg (rat) (OECD 401)  
Dermal LD<sub>50</sub> >5000mg/kg (rabbit)  
Inhalative LC<sub>50</sub> >140->2000 mg/m<sup>3</sup>.4h (rat) (OECD 403) Maximum attainable concentration, mortality does not appear

Skin corrosion/irritation: not irritating (rabbit) (OECD 404)  
Serious eye damage/eye irritation: not irritating (rabbit) (OECD 405)  
Respiratory or skin sensitisation: no data available  
Germ cell mutagenicity: no data available

Carcinogenicity:  
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Silicon dioxide)  
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

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## Alseal 5KTC Blue Part A

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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:

RTECS: Not available

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

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence (Silicon dioxide)

### Phosphoric acid (7664-38-2)

Information on toxicological effects

Acute toxicity:

Ingestion/Oral Rat LD50 1530mg/kg

Inhalation: no data available

Dermal: Skin-Rabbit LD50 2740mg/kg

Irritation:

Eye-Rabbit 119mg/kg Severe irritation, irreversible burns (corrosive)

Skin-Rabbit 595mg/kg 24 hours Severe irritation, irreversible burns (corrosive)

Note: Information above for Phosphoric Acid

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human 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:

RTECS: Not available

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence (Phosphoric acid)

### 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

## Aseal 5KTC Blue Part A

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.

12

**ECOLOGICAL INFORMATION****Silica, amorphous (7631-86-9)**

Information on ecological effects

Toxicity: LC50 (96h) (static) 10000 mg/l (zebra fish) (OECD 203)

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

**Phosphoric acid (7664-38-2)**

Information on ecological effects

Toxicity: Mosquitofish LC50 138mg/L 96 hours

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted



**Alseal 5KTC Blue Part A**

Other adverse effects: no data available

**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.

<b>13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional hazardous waste disposal service to dispose of this material.  
 Contaminated packaging: Dispose of as unused product.

<b>14</b>	<b>TRANSPORT INFORMATION</b>
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UN3066, Paint or Paint related material, 8, PGIII

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

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 Water (7732-18-5) [60-70%] TSCA

Silica, amorphous (7631-86-9) [0-2%] MASS, NJHS, PA, TSCA

C.I. Pigment Blue 28 (1345-16-0) [5-10%] SARA313, TSCA

RQ(5000LBS), Phosphoric acid (7664-38-2) [20-25%] CERCLA, CSWHS, EPCRAWPC, MASS, NJHS, OSHAWAC, SARA313, TSCA, TXAIR

Regulatory CODE Descriptions

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 RQ = Reportable Quantity  
 TSCA = Toxic Substances Control Act  
 MASS = MA Massachusetts Hazardous Substances List  
 NJHS = NJ Right-to-Know Hazardous Substances  
 PA = PA Right-To-Know List of Hazardous Substances  
 SARA313 = SARA 313 Title III Toxic Chemicals  
 CERCLA = Superfund clean up substance  
 CSWHS = Clean Water Act Hazardous substances  
 EPCRAWPC = EPCRA water Priority Chemicals  
 OSHAWAC = OSHA workplace Air Contaminants  
 TXAIR = TX Air Contaminants with Health Effects Screening Level



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## Aseal 5KTC Blue Part A

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16

### OTHER INFORMATION

**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.