

Aalseal 598 Turquoise Part A

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Aalseal 598 Turquoise Part A
Common Name: Phosphate/Chromate solution
SDS Number: A67
Revision Date: 7/8/2015
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
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2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Serious Eye Damage/Eye Irritation, 1
 Health, Specific target organ toxicity - Repeated exposure, 1
 Health, Carcinogenicity, 1 A
 Health, Germ cell mutagenicity, 1 B
 Health, Respiratory or skin sensitization, 1 Respiratory
 Environmental, Hazards to the aquatic environment - Acute, 1
 Environmental, Hazards to the aquatic environment - Chronic, 1
 Health, Respiratory or skin sensitization, 1 Skin
 Health, Reproductive toxicity, 2
 Health, Acute toxicity, 4 Oral
 Health, Acute toxicity, 5 Dermal
 Health, Acute toxicity, 5 Inhalation

GHS Label elements, including precautionary statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H318 - Causes serious eye damage
 H372 - Causes damage to organs through prolonged or repeated exposure
 H350 - May cause cancer
 H340 - May cause genetic defects
 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects
 H317 - May cause an allergic skin reaction
 H361 - Suspected of damaging fertility or the unborn child
 H302 - Harmful if swallowed
 H313 - May be harmful in contact with skin

Aiseal 598 Turquoise Part A

H333 - May be harmful if inhaled

GHS Precautionary Statements:

- P201 - Obtain special instructions before use.
- P220 - Keep/Store away from clothing/combustible materials.
- 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.
- 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.

3	COMPOSITION/INFORMATION OF INGREDIENTS
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Ingredients:

Cas#	%	Chemical Name
7732-18-5	51-66%	Water
7631-86-9	2-6%	Silica, amorphous
92203-02-6	22-28%	Phosphoric acid, reaction products with aluminum hydroxide and chromium oxide (CrO3)
68187-11-1	10-15%	C.I. Pigment Blue 36

*4.5% of total weight is CrO3.....PEL-.005 mg/m3 ceiling for CrO₃
 ACGIH-as soluble Cr (VI) compound
 0.05 mg/m3
 NIOSH - as Cr (VI) compound
 0.001 mg/m3 10 hour TWA

4	FIRST AID MEASURES
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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.
 Wash with soap and water for at least 15 minutes. Get medical attention if needed or irritation develops.
- Eye Contact:** 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

Aiseal 598 Turquoise Part A

5	FIRE FIGHTING MEASURES
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Flammability: Non-Flammable
Flash Point: N/A
LEL: N/A
UEL: N/A

Extinguishing Media
 Use Sand or Carbon Dioxide (CO₂)

Extinguishing Media:

Use Sand or Carbon Dioxide (CO₂)

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:

Contact with alkalis, strong reducing or oxidizing agents may produce hydrogen gas causing fire or explosion hazard.

6	ACCIDENTAL RELEASE MEASURES
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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. Do not use strong alkalis.

Waste Disposal Method:

Filter to remove solids and discard as solid chemical waste. Treat remaining liquid with sodium metabisulfate, then precipitate trivalent chromium by neutralizing with alkali, such as lime. Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

7	HANDLING AND STORAGE
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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.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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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).

Alseal 598 Turquoise Part A

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

Chromium oxide (CrO3) (1333-82-0)

TWA	0.001 mg/m3	USA. NIOSH Recommended Exposure Limits
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Potential Occupational Carcinogen See Appendix C See Appendix A
See Table Z-2 for the exposure limit for any operations or sectors where the exposure limit in 1910.1026 is stayed or is otherwise not in effect Substance listed; for more information see OSHA document 1910.1026

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Aiseal 598 Turquoise Part A

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/m³ (as Cr)
 COBALT METAL, DUST AND FUMES (PEL) 0.1 mg/m³ (as Co)
 ZINC COMPOUNDS (PEL) NONE (as Zn)

US. ACGIH Threshold Limit Values:

CHROMIUM (III) AND COMPOUNDS (TWA) 0.5 mg/m³ (as Cr)
 COBALT METAL, DUST AND FUMES (TWA) 0.02 mg/m³ (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/m³ (as Cr)
 COBALT METAL, DUST AND FUMES (TWA) 0.05 mg/m³ (as Co) Dust and fume.
 ZINC COMPOUNDS (PEL) NONE (as Zn)

9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue-Green	Odor:	No odor
Physical State:	Liquid	Solubility:	Soluble
Spec Grav./Density:	1.36-1.40	Percent Volatile:	80-90%% (by volume)
Viscosity:	18-20 Seconds #2 Zahn cup	Flash Point:	N/A
Boiling Point:	212 F	VOC:	0% (VOC of combined Part A&B = 88g/l)
Flammability:	Non-Flammable		
pH:	1.0 to 1.5		

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 LD50 >5000mg/kg (rat) (OECD 401)

Dermal LD50 >5000mg/kg (rabbit)

Inhalative LC50 >140->2000 mg/m³.4h (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 NTP.

Alseal 598 Turquoise Part A

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, reaction products with aluminum hydroxide and chromium oxide(CrO3) (92203-02-6)

Information on toxicological effects

No data available so data for constituent components provided below.

Carcinogenicity:

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Human carcinogen.

IARC: 1 - Group 1: Carcinogenic to humans (Chromium trioxide)

NTP: Known to be human carcinogen (Chromium trioxide)

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 irritaion, irreversible burns (corrosive)

Skin-Rabbit 595mg/kg 24 hours Severe irritaion, 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

Alseal 598 Turquoise Part A

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)

Chromium oxide (CrO3) (1333-82-0)

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - male and female - 52 mg/kg

Inhalation LC50 LC50 Inhalation - rat - male - 4 h - 217 mg/m3

Dermal LD50 LD50 Dermal - rabbit - male and female - 57 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritation: Skin - rabbit - Corrosive - 24 h

Serious eye damage/eye irritation: Eyes - rabbit - Corrosive to eyes

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: May alter genetic material. In vivo tests showed mutagenic effects

Carcinogenicity:

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification. Human carcinogen.

IARC: 1 - Group 1: Carcinogenic to humans (Chromium trioxide)

NTP: Known to be human carcinogen (Chromium trioxide)

Reproductive toxicity: May cause reproductive disorders.

Teratogenicity: Suspected human reproductive toxicant

Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion Toxic if swallowed. Skin Toxic if absorbed through skin. Causes skin burns. Eyes Causes eye burns. Causes severe eye burns.

Signs and Symptoms of Exposure: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Synergistic effects: no data available

Additional Information:

RTECS: GB6650000

Alseal 598 Turquoise Part A

Aluminum hydroxide (Al(OH)₃) (21645-51-2)

Information on toxicological effects

Acute toxicity:
no data available

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

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: Nausea, Vomiting, Constipation.

Synergistic effects: no data available

Additional Information:
RTECS: BD0940000

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 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

Aiseal 598 Turquoise Part A

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, reaction products with aluminum hydroxide and chromium oxide(CrO3) (92203-02-6)

Information on ecological effects

No data available so data for constituent components provided below.

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

Other adverse effects: no data available

Alseal 598 Turquoise Part A

Chromium oxide (CrO3) (1333-82-0)

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Tilapia mossambica - 21.05 - 141.38 mg/l - 96.0 h.
 LC0 - Leuciscus idus (Golden orfe) - 100 mg/l - 48.0 h
 Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 0.8 mg/l - 48 h.
 and other aquatic invertebrates

Persistence and degradability: no data available
 Bioaccumulative potential: no data available
 Mobility in soil: no data available
 PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

Aluminum hydroxide (Al(OH)3) (21645-51-2)

Information on ecological effects
 no data available

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.

13	DISPOSAL CONSIDERATIONS
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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.

14	TRANSPORT INFORMATION
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Non-hazardous for air, sea and road freight.

Alseal 598 Turquoise Part A

15**REGULATORY INFORMATION**Component (CAS#) [%] - CODES

Water (7732-18-5) [51-66%] TSCA

Silica, amorphous (7631-86-9) [2-6%] MASS, NJHS, PA, TSCA

Phosphoric acid, reaction products with aluminum hydroxide and chromium oxide (CrO₃) (92203-02-6) [22-28%] TSCAChromium oxide (CrO₃) (1333-82-0) [4.5%] MASS, PA, PROP65, SARA313, TSCA

C.I. Pigment Blue 36 (68187-11-1) [10-15%] TSCA

Regulatory CODE Descriptions

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
 PROP65 = CA Prop 65
 SARA313 = SARA 313 Title III Toxic Chemicals

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.