

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
Product name : Tannin Blocking Additive  
Product code : ELADD 004

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Wood Coating Additive

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Performance Finishing Solutions  
4800 Eastgate Parkway  
Units 3 & 4  
Mississauga, L4W 3W6 - Canada  
T 905-629-7007

#### Distributor

### 1.4. Emergency telephone number

Emergency number: : 905-629-7007 (M-F 8-5)

## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

#### GHS classification

Skin corrosion/irritation, Cat. 2  
Serious eye damage/irritation, Cat. 2A

### 2.2. Label elements

#### GHS labelling

Hazard pictograms (GHS) :



GHS07

Signal word (GHS) : Warning  
Hazard statements (GHS) : Causes serious eye irritation. Causes Skin Irritation  
Precautionary statements (GHS) : Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

Toxic to aquatic life

### 2.4. Unknown acute toxicity

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

### 3.2. Mixtures

Name	Product identifier	%
Zinc Oxide	1314-13-2	3-6
Ammonia	7664-41-7	1-<3
Ammonium Zirconium Carbonate	68309-95-5	Proprietary*
Zirconium Propionate	84057-80-7	Proprietary*

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Immediately flush with water for at least 10 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : Burning sensation.
- Symptoms/effects after skin contact : Burning sensation.
- Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Symptoms/effects after ingestion : May cause nausea, vomiting and/or diarrhea.

### 4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : None known.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon, nitrogen, sulfur phosphorous and metal oxides.
- Reactivity : No dangerous reactions known under normal conditions of use.

### 5.3. Advice for firefighters

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid contact with skin and eyes. Spilled material may present a slipping hazard.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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### 6.3. Methods and material for containment and cleaning up

- For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
- Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.
- Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep out of the reach of children. Keep container tightly closed. Protect from freezing. Keep out of direct sunlight.
- Maximum storage period : 24 months
- Storage temperature : 1 - 49 °C (34 - 120 °F)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Zinc Oxide 1314-13-2	STEL: 10 mg/m <sup>3</sup> respirable particulate matter TWA: 2 mg/m <sup>3</sup> respirable particulate matter	TWA: 5mg/m <sup>3</sup> fume TWA: 15 mg/m <sup>3</sup> total dust TWA 5mg/m <sup>3</sup> respirable fraction	IDLH : 500 mg/m <sup>3</sup> Ceiling : 15 mg/m <sup>3</sup> dust TWA : 5mg/m <sup>3</sup> dust and fume STEL : 10 mg/m <sup>3</sup> fume
Ammonia 7664-41-7	STEL: 35 ppm TWA: 25 ppm	TWA: 50 ppm TWA: 35 mg/m <sup>3</sup>	IDLH: 300 ppm TWA: 25 ppm, 18 mg/m <sup>3</sup> STEL: 35 ppm, 27mg/m <sup>3</sup>
Ammonium Zirconium Carbonate 68309-95-5	STEL: 10mg/m <sup>3</sup> Zr TWA: 5mg/m <sup>3</sup> Zr	TWA: 5mg/m <sup>3</sup>	IDLH: 25 mg/m <sup>3</sup> Zr TWA: 5 mg/m <sup>3</sup> except ZrCl <sub>4</sub> STEL: 10 mg/m <sup>3</sup> Zr
Zirconium Priopionate 84507-80-7	STEL: 10mg/m <sup>3</sup> Zr TWA: 5mg/m <sup>3</sup> Zr	TWA: 5mg/m <sup>3</sup>	IDLH: 300 ppm TWA: 25 ppm, 18 mg/m <sup>3</sup> STEL: 35 ppm, 27mg/m <sup>3</sup>

### 8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Ensure that eyewash stations and safety showers are close to the workstation location.
- Hand protection : Wear suitable gloves resistant to chemical penetration.
- Eye protection : Wear eye/face protection.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls : Avoid release to the environment.
- Other information : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear
- Colour : Colourless

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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Odour	: Ammoniacal
Odour threshold	: No data available
pH	: 9
Melting point	: No data available
Freezing point	: 0 °C (32 °F)
Boiling point	: 100 °C (212 °F)
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.3 g/cm <sup>3</sup>
Solubility	: Miscible in water
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: 371°C (700°F)
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: Lower explosive limit (LEL): Not applicable Upper explosive limit (UEL): Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available

### 9.2. Other information

none

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Strong Alkali, reacts with oxidizing agents.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reacts with alkalis releasing ammonia.

### 10.4. Conditions to avoid

No specific data.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon, oxides of nitrogen, ammonia, zinc oxide fumes

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	:	Ingestion may cause irritation, nausea, vomiting and diarrhea.
Acute toxicity (dermal)	:	Causes skin irritation.
Acute toxicity (inhalation)	:	May cause irritation of the respiratory tract.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Zinc Oxide 1314-13-2	>2000 mg/kg bw (rat)	>2000 mg/kg bw (rat)	>5.7 mg/L bw (rat) 4h
Ammonia 7664-41-7	350 mg/kg (rat)	-	-

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Ammonium Zirconium Carbonate 68309-95-5	2900 mg/kg (rat)	-	-
Zirconium Priopionate 84507-80-7	-	-	-

Skin corrosion/irritation	: Skin irritant
Serious eye damage/irritation	: Causes serious eye irritation. pH: 9
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
Symptoms/effects after inhalation	: No known significant effects or critical hazards.
Symptoms/effects after skin contact	: Skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: No known significant effects or critical hazards.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/Aquatic plants	Fish	Crustacea	Toxicity to microorganisms
Zinc Oxide 1314-13-2	LC50:0.63 mg/L (72h, pseudokirchneriella subcapitata)	EC50: 1.1 mg/l (96 h, Oncorhynchus Mykiss)	EC50: >2.0 mg/L (48h, Daphnia)	-
Ammonia 7664-41-7	STEL: 35 ppm TWA: 25 ppm	LC50: =0.44mg/L (96h, Cyprinus carpio) LC50: 0.26 - 4.6mg/L (96h, Lepomis macrochirus) LC50: =1.17mg/L (96h, Lepomis macrochirus) LC50: 0.73 - 2.35mg/L (96h, Pimephales promelas) LC50: =5.9mg/L (96h, Pimephales promelas) LC50: >1.5mg/L (96h, Poecilia reticulata) LC50: =1.19mg/L (96h, Poecilia reticulata)	TWA: 50 ppm TWA: 35 mg/m <sup>3</sup>	-
Ammonium Zirconium Carbonate 68309-95-5	-	LC50: =410mg/L (96h, Oryzias latipes)	-	-
Zirconium Priopionate 84507-80-7	-	-	-	-

### 12.2. Persistence and degradability

<b>ELADD 004</b>	
Persistence and degradability	Based on monitoring data, zinc compounds are expected to adsorb to suspended solids and sediment in water

### 12.3. Bioaccumulative potential

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### ELADD 004

Bioaccumulative potential

Bioconcentration factor values for zinc ions in freshwater fish and marine fish were reported as 1000 and 2000 respectively. After exposing rainbow trout to zinc for a period of 30 days in river water, it was concluded that zinc accumulates in the gills, liver, kidney and opercular bone, but not in the muscle. Bioconcentration factor values for zinc ions in freshwater fish and marine fish were reported as 1000 and 2000 respectively. After exposing rainbow trout to zinc for a period of 30 days in river water, it was concluded that zinc accumulates in the gills, liver, kidney and opercular bone, but not in the muscle

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : No other effects known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

Materials carried under UN3082 or UN3077 in either single or inner packaging of ≤5L (liquids) or ≤5kg (solids) may be transported as non-dangerous goods, provided they are packed in good quality packaging and adhere to the corresponding general packaging provisions of the above transport legislation.

**UN Number:** 3082

**IMDG:** Proper shipping name: Environmentally hazardous substance, liquid, n.o.s (zinc oxide) Class: 9 - Miscellaneous Dangerous Substances and Articles Labels: 9 Packing Group: III Mark: MARINE POLLUTANT

**ICAO/IATA:** Proper shipping name: Environmentally hazardous substance, liquid, n.o.s (zinc oxide) Class: 9 Packing Group: III Label: 9 Hazard label(s): Miscellaneous Marking: Environmentally hazardous substance

**DOT:** Proper shipping name: Environmentally hazardous substances, liquid, n.o.s (zinc oxide) Class: 9 - Miscellaneous Hazardous Materials Label: 9 Packing Group: III Not regulated for surface and air transport in non-bulk (<119 gallons) packaging.

### SECTION 15: Regulatory information

#### 15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

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All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

SARA 313 - Ammonia (includes anhydrous ammonia and aqueous ammonia from waterdissociable ammonium salts and other sources; 10% of total aqueous ammonia isreportable under this listing) is subject to SARA Title III, Section 313 reportingrequirements. Zinc compounds are subject to the reporting requirements of section 313 of the Emergency and Planning Community Right-To-Know Act of 1986 and of 40 CFR 372.

SARA 311/312 Hazard Categories - Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

### CWA – Clean Water Act

This material as supplied contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

AMMONIA (7664-41-7) – Hazardous Substances RQs – 100lb

### US State Right-to-know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Zinc Oxide 1314-13-2	X	X	X
Ammonia 7664-41-7	X	X	X
Ammonium Zirconium Carbonate 68309-95-5	-	-	-
Zirconium Priopionate 84507-80-7	X	-	X

### 15.2. International regulations

GHS hazardous component CAS registry numbers appearing in section 3 may differ from substances appearing in section 15 due to country or regional chemical inventory coverage requirements, however, remain in compliance with the inventory

TSCA Listed or exempted

DSL/NDSL Listed or exempted

ENCS Not Listed

IECSC Listed or exempted

KECL Not Listed

PICCS Not Listed

AICS Listed or exempted

NZIoC Listed or exempted

TCSI Listed or exempted

NCI Listed or exempted

TECI Not Listed

NSQ Not Listed

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and chemical properties –

HMIS Health hazards 2 Flammability 0 Physical hazards 0 Personal protection X

Revision date : 4/15/2021

Other information : None.

Prepared by : Michael Chrisomalis

SDS HazCom 2012 - WHMIS 2015

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