# SAFETY DATA SHEET

Green-Bond Trust

**SECTION 1: IDENTIFICATION**

| | |
|---|---|
| Product identifier used on a label: | **Green-Bond Trust** |
| Product code: | 5143 |
| Recommended use of the chemical and restrictions on use: | Surface Finishing, other manufacturing applications. |
| Chemical family: | Inorganic acids. |
| Name, address and phone # of supplier: | Aqua Bond Inc.<br>440 Passmore ave.<br>Scarborough, ON, M1V 5J8<br>(416) 754-7211 |
| **24 Hr. Emergency phone #** | **CANUTEC (613) 996-6666** |

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classifications:**

Acute Oral Toxicity (category 4)

Skin Corrosion/Irritation - Category 1

Serious Eye Damage/Eye Irritation - Category 1.

**Signal Word**: Danger



**Hazard Statements:**

Harmful if swallowed

Causes severe skin burns and eye damage

**Precautionary Statements**:

Wear protective gloves/protective clothing/eye protection/face protection

Wash thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dusts or mists

IF INHALED: Remove person to fresh air and keep comfortable for breathing

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting Immediately call a POISON CENTER or doctor Specific treatment (see label)

Store locked up

Dispose of contents/container in accordance with local/regional/national/international regulations

Statement of Unknown Toxicity 0% of the mixture consists of ingredient(s) of unknown acute toxicity.

Other Hazards May be harmful if swallowed. This product may be irritating to the respiratory system.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

| Substance | CAS Number | Hazard | Composition |
|---|---|---|---|
| Water | 7732-18-5 | - | 80 - 92% |
| Zirconate, hexafluoro, dihydroven (OC-6-11)- | 12021-95-3 | See Section 2 | 8 - 20 % |

**SECTION 4: FIRST AID MEASURES**

**Eyes**: Immediately flush with lots of running water for 15 minutes, lifting the upper and lower eye lids occasionally. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get immediate medical attention.

**Skin**: Immediately flush skin with lots of running water for 5 minutes. Remove contaminated clothing and shoes. Wash before reuse. Get immediate medical attention.

**Ingestion**:

**Inhalation**: Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention

**PPE for first responders:** Use Personal Protective equipment as required. Avoid contact with skin, eyes and clothing.

**SECTION 5: FIRE FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media** Water spray, foam, carbon dioxide or dry chemical may be used in areas where the product is stored.

**Special Hazards Arising from the Chemical** Reactions with light metals will evolve hydrogen gas. Contact with this material will cause burns to the skin, eyes and mucous membranes. Keep away from heat, sparks, open flame and other ignition sources. Irritating and toxic fumes and gases may be released if involved in a fire.

**Hazardous Combustion Products** None identified.

**Fire Fighting Measures** Protective clothing and self-contained breathing apparatus should be worn by fire fighters in areas where product is stored.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures** Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this SDS.

**Environmental Precautions** Dike the spill with sand or earth. Sweep up and shovel into suitable containers for disposal. Prevent material from entering drains or sewers.

**SECTION 7: HANDLING AND STORAGE**

**Handling** : Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or dust. Wash thoroughly after handling. Keep container tightly closed. Use only with adequate ventilation. Keep out of the reach of children.

**Storage** : Store in a cool, dry well-ventilated area. Keep containers closed when not in use. Keep containers isolated from incompatible materials/conditions such as heat and ignition sources. Protect against physical damage and check regularly for leaks.

**SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Engineering Controls** : Use local exhaust ventilation.

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**Biological limit value** There are no biological limit values for any of this product's components.

**Eye/face protection** Safety glasses or chemical goggles. It is generally recognized that contact lenses should not be worn when working with chemicals because they may contribute to the severity of an eye injury.

**Skin Protection** The use of rubber gloves, long sleeved shirt and trousers are required.

**Respiratory Protection** If ventilation is not sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must be provided.

**Glove Recommendations** The use of rubber gloves is recommended.

**Protective Materials** Eye wash fountain and emergency showers are recommended.

**SECTION 9: CHEMICAL AND PHYSICAL PROPERTIES**

**Appearance** Clear

**Physical State** liquid

**Odor** Mild Color Colorless

**Odor Threshold** Not available

**pH** 1.8 - 3.2 Safety

**Melting Point** Not available

**Boiling Point** Not available

**Freezing point** Not available

**Evaporation Rate** Not available

**Boiling Point** Range Not available

**Flammability (solid, gas)** Not available

**Autoignition** Not available Flash Point Not available

**Lower Explosive Limit** Not available

**Decomposition** Not available

**Upper Explosive Limit** Not available

**Vapor Pressure** Not available

**Vapor Density (air=1)** Not available

**Specific Gravity** (water=1) 1.01 - 1.05

**Water Solubility** Not available

**Partition coefficient**: n-octanol/water Not available

**Viscosity** Not available

**Solubility (Other) Not available Density** Not available

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity** Will not occur.

**Chemical Stability** This is a stable material.

**Possibility of Hazardous Reactions** Will not occur.

**Conditions to Avoid** Avoid strong oxidizing agents. This product may react with strong alkalies. Avoid contact with incompatible materials. Intense heat.

**Incompatible Materials** Avoid contact with alkalis, oxidizing and reducing materials, cyanides, sulfides and combustible materials.

**Hazardous decomposition products** Hydrogen fluoride.

**Thermal decomposition products** Carbon monoxide and carbon dioxide

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute and Chronic Toxicity**

**Component Analysis - LD50/LC50** The components of this material have been reviewed in various sources and the following selected endpoints are published: Water (7732-18-5) Oral LD50 Rat >90 mL/kg

**Immediate Effects** No information on significant adverse effects.

**Delayed Effects** No information on significant adverse effects.

**Irritation/Corrosivity Data** No data available.

**Respiratory Sensitization** No data available. Dermal Sensitization No data available.

**Component Carcinogenicity** None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

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**Germ Cell Mutagenicity** No data available.
**Tumorigenic Data** No data available 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. Medical Conditions Aggravated by Exposure No data available.

**SECTION 12: ECOLOGICAL INFORMATION**

**Component Analysis - Aquatic Toxicity** No LOLI ecotoxicity data are available for this product's components

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Disposal Method** : Waste must be handled in accordance with all federal, state, provincial, and local regulations. Transport waste material to an authorized waste location, or incinerate under controlled conditions.

**SECTION 14: TRANSPORT INFORMATION**

**US DOT** UN 3264,
Proper Shipping Name: Corrosive Liquid, Acidic, inorganic, N.O.S.,, (Contains:Fluorozirconic Acid)

Class: 8
PG:II
Label: Corrosive Sticker

**IMDG** 3264,
Proper Shipping Name:Corrosive Liquid, Acidic, inorganic, N.O.S.,, (Contains:Fluorozirconic Acid)
Class 8
PG: II
Label: Corrosive Sticker

**IATA** UN 3264,
Proper Shipping Name: Corrosive Liquid, Acidic, inorganic, N.O.S.,, (Contains:Fluorozirconic Acid)

**SECTION 15: REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS**:
**TSCA**: All components of this product are listed on the TSCA inventory.
**CERCLA**: No components of this product are listed.
**SARA TITLE III (EPCRA) Section 313**: No components of this product are listed.
**SARA TITLE III (EPCRA) Section 311/312**: Immediate (Acute) Health Hazard

**CANADIAN WHMIS CLASSIFICATION**:
**D2(B)** - Materials causing other toxic effects; E—Corrosion Material

**OSHA**: None of the chemicals in this product are considered highly hazardous by OSHA California Proposition 65: No significant risk level
Acute health hazard - Yes
Chronic health hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

**SECTION 16: OTHER INFORMATION**

Revision date: March 29, 2018

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods

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LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

**Disclaimer**

While the information and recommendations set forth are believed to be accurate as of data hereof, Aqua Bond Inc., makes no warranty with respect thereto and disclaims all liability from reliance thereon.