1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:
• Krystol Waterstop Treatment

Other Means of Identification:
• KWT
• Treatment

Product Code: K-321
Product Use: A concrete treatment as part of the Krystol Waterstop System.
CAS Number: Not Established

Manufacturer's Name: Kryton International Inc.
Address: 1645 E. Kent Avenue, Vancouver, BC, Canada, V5P 2S8
Telephone Number: 1-604-324-8280
FAX Number: 1-604-324-8899
Web Site: www.kryton.com

Emergency Contacts & Phone Number:
Kryton International Inc. 1.800.267.8280 (Business Hours)
Call a poison center or doctor/physician in your country

BC, Canada: BC Drug and Poison Information Centre 604.682.5050
Australia: Poisons Information Centre 13 11 26
US: American Association of Poison Control Centers 1.800.222.1222

Date MSDS Updated: November 18, 2015
MSDS Updated by: Research and Development Department, Kryton International Inc.

Date MSDS Prepared: May 29, 1995
MSDS Prepared by: Dept. Group #7, Contect Testing

2. HAZARDS IDENTIFICATION

Classification of the Mixture

Classification GHS (5th edition)

Skin Irrit. 1C  H314  Causes severe skin burns and eye damage
Eye Dam. 1  H318  Causes serious eye damage
Skin Sens. 1  H317  May cause allergic skin reaction
SOT SE 3  H335  May cause respiratory irritation
SOT RE 2:  H373  May cause damage to respiratory organs through prolonged or repeated exposure
Hazard Pictograms

Signal Word – Danger

Hazard Statements
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H317 May cause allergic skin reaction
H335 May cause respiratory irritation
H373 May cause damage to respiratory organs through prolonged or repeated exposure

Precautionary Statements
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust
P264 - Wash hands, forearms and exposed areas thoroughly after handling
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, face protection and eye protection
P301, P330, P331- If swallowed, rinse mouth, do not induce vomiting.
P303, P361, P353, P352 - If on skin or hair, remove all contaminated clothing, rinse skin thoroughly and wash with soap and water.
P304, P340 - If inhaled, remove person to fresh air and keep at rest in position of comfortable breathing
P305, P351, P338 - If in eyes, rinse with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P310 - Immediately call a poison center or doctor/physician

Other Hazards
- Grey, odorless and fine powder. It is not combustible or explosive. Short-term exposure to the dry powder presents little or no hazard. May irritate eyes, skin and respiratory tract. Exposure of sufficient duration to wet product or to dry product on moist areas of body, can cause caustic burn.

- This product has not been identified as a risk of lung cancer. This product contains crystalline quartz from sand (silicon dioxide). Crystalline quartz is classified as a carcinogen by IARC and NTP; it is a suspected human carcinogen by ACGIH; it has not classified as a carcinogen by NOHSC. The major route of entry is inhalation. Although this product contains less than 0.003% of respirable silica dust, well ventilate area and respirator is recommended. When wetted or final set form, risk of any airborne respirable dust will be low, but dry residues, or dust from cutting, grinding, abrading or finishing the set product may contain respirable crystalline silica.
3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Content (%)</th>
<th>ACGIH TLV-TWA (mg dust/m³)</th>
<th>OSHA PEL-8h TWA (mg dust/m³)</th>
<th>LD₅₀</th>
<th>LC₅₀</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland Cement</td>
<td>65997-15-1</td>
<td>266-043-4</td>
<td>15-40</td>
<td>10</td>
<td>15 (T) 5 (R)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Skin Irr. 2 H315</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1 H318</td>
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<td></td>
<td></td>
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<td>Skin Sens. 1 H317</td>
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<td></td>
<td></td>
<td></td>
<td>STOT SE 3 H335</td>
</tr>
<tr>
<td>Silica, Quartz</td>
<td>14808-60-7</td>
<td>238-878-4</td>
<td>15-40</td>
<td>0.025</td>
<td>30/(%SiO₂+2) (T) 10/(%SiO₂+2) (R)</td>
<td>500mg/kg (oral, rat)</td>
<td>Not Available</td>
<td>STOT SE 2 H373</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

When contacting a physician, take this SDS with you.

**Eyes:**
- Do not rub eye(s) as additional cornea damage is possible by mechanical stress.
- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

**Skin:**
- For dry product, remove and rinse abundantly with water.
- For wet product, wash skin with water.
- Remove contaminated clothing, footwear, watches, etc. and clean thoroughly before re-using them.
- Seek medical treatment in all cases of irritation or burns.

**Ingestion:**
- Do not induce vomiting.
- If person is conscious, wash out mouth with water and give plenty of water to drink.
- Get immediate medical attention or contact anti poison center.

**Inhalation:**
- Remove to fresh air and at rest and in a position of comfortable breathing.
- If breathing has stopped, institute artificial respiration.
- Get medical attention if discomfort remains.

Most Important Symptoms and Effects both Acute and Delayed

**Acute:** Corrosive to skin, eyes and respiratory tract. Exposure may produce allergic reaction.

**Delayed:** Long term exposure to dust may result in lung damage.

5. FIREFIGHTING MEASURES

**Flammability:** Noncombustible

**Means of Extinction:** Water, Fog, Alcohol-Resistant Foam, Dry Chemical or Carbon Dioxide (CO₂)

**Flashpoint and Method:** Non-combustible, >200F

**Autoignition Temperature:** Not Applicable

**Fire and Explosion Data:** Not Applicable

**Hazardous Combustion Products:** Not Applicable

**Fire Fighting Instructions:** Firefighters should wear self-contained breathing apparatus and full protective gear. Product reacts with water and creates heat.
6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear protective equipment as described under section 8 and follow the advice for safe handling and use given under section 7. Emergency procedures are not required.

**Environment precautions:** Do not wash product down sewage and drainage systems or into bodies of water.

**Methods for cleaning up:**
- Use dry cleanup methods that do not cause airborne dispersion, e.g.: Vacuum cleaner (Industrial portable units, equipped with high efficiency particulate filters (HEPA filter) or equivalent technique).
- Wipe-up the dust by mopping, wet brushing or water spraying and remove wet product.
- When vacuum cleaning or wet cleaning are not possible and only dry cleaning with brushes can be done, ensure that the workers wear appropriate personal protective equipment and prevent dust from spreading.
- Place spilled materials into a container. Allow material to dry and solidify before disposal.

7. HANDLING AND STORAGE

**Handling Procedures and Equipment:**
- Avoid contact with skin and eyes by wearing protective equipment: safety goggles, protective clothing, nitrile gloves and waterproof shoes.
- Use in well-ventilated area or wear NIOSH-approved respirator with particulate cartridges or filter.
- Do not handle or store near food and beverages or smoking materials.
- Carrying bags/buckets may cause sprains and strains to the back, arms, shoulders and legs.
- Handle with care and use appropriate control measures.
- Wash hands thoroughly with soap and water after handling.
- Keep container closed when not in use.

**Storage Requirements:**
- Bulk product should be stored in containers that are waterproof, dry (internal condensation minimized), clean and protected from contamination.
- Product can build-up or adhere to the walls of a confined space. It can release, collapse or fall unexpectedly.
- Keep containers tightly closed.
- Protect from moisture.
- Store in a cool, dry place.
- Keep out of reach of children.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Exposure Limits:**
- Portland Cement, CAS# 65997-15-1
  WELs EH40/2005 (UK), 8 hr TWA, 2007 : 10 mg/m³ inhalable dust, 4 mg/m³ respirable dust.
  ACGIH TLV-TWA 2000: 10 mg total dust/m³
  OSHA PEL, 8-hr TWA: 15 mg total dust/m³, 5 mg respirable dust/m³
  Chromium VI (hexavalent): 0.05mg/m³ - sensitiser
- Silica, Quartz, CAS#14808-60-7
  WELs EH40/2005 (UK), 8 hr TWA, 2007: 0.1 mg/m³ respirable dust
  ACGIH TLV-TWA 2008: 0.025 mg respirable dust/m³
  OSHA PEL, 8-hr TWA: 10 mg respirable dust/m³ (percent silica + 2)
  NIOSH REL, 8-hr TWA: 0.05 mg respirable dust/m³

**Specific Engineering Controls:** Use general or local exhaust ventilation to keep dust levels below exposure limits. If exceed the limits, use a properly fitted and NIOSH approved respirator.

**Personal Protective Equipment:**
- Gloves: Chemical resistant rubber or nitrile gloves
- Respirator: NIOSH approved with particulates filter or cartridge
- Eye: Safety goggles or safety glasses with side shields
• Footwear: Waterproof
• Clothing: Long sleeve and long pants to avoid skin contact
• Other: Wash thoroughly with soap and water after handling. Do not eat, drink or smoke while handling the product to avoid contact with skin or mouth.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder (Solid)
Odour and Appearance: Odourless, Grey, mixture of finely divided and granules particulate. Contains polypropylene fibers.
Odour Threshold: Not Applicable
Specific Gravity: 2.6 – 3.0
Vapor Density: Not Applicable
Vapor Pressure: Not Applicable
Evaporation Rate: Not Applicable
Boiling Point: Not Applicable
Melting Point: Not Applicable
pH (in water): 12-14 (Alkaline)
Coefficient of Water/Oil Distribution: Not Applicable
Solubility in Water: Slightly soluble (10-15%)
Relative bulk density: 1.3 – 1.6
Viscosity: Not Applicable
VOC content: 0 g/L, EU (w/w) 0%
Flammability: Noncombustible
Flashpoint: Not Applicable
Upper/Lower Flammability or Explosive Limits: Not Applicable
Auto-ignition Temperature: Not Applicable
Decomposition Temperature: Not Applicable

10. STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions to Avoid (Stability): Unintended contact with water or moisture, which produces caustic solutions, pH 12-14.
Incompatibility with Other Substances: React with acids, ammonium salts, fluorine, lithium and aluminum, which may liberate Carbon Monoxide, Carbon Dioxide or Hydrogen.
Hazardous Polymerization: Cannot occur
Possibility of Hazardous Reactions: No additional remark
Hazardous Decomposition Products: Will not spontaneously occur. Adding water produces caustic calcium hydroxide.
Other Precautions: When mix with water, the mixture is caustic with pH12-14 and it can get hot.

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Skin Contact, Eye Contact, Inhalation and Ingestion
Effects of Acute Exposure to Product:
• May cause eyes, skin and respiratory irritation, inflammation or severe chemical burns if direct contacted by large amount of product.
• May cause skin thickening, cracking or fissuring if contacted to wet product or dry product with wet skin.
• May cause coughing, sneezing and shortness of breath if exposed in excess of occupational exposure limits.

Effects of Chronic Exposure to Product:
• Multiple skin exposure over weeks or months leading to eczema or dermatitis. Content of sensitizing Cr(VI) is below 0.002% according to regulation.
• Exposure to crystalline silica may cause silicosis and serious lung disease.
• Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation
• Sensitivity reactions may occur from prolonged and repeated exposure

Irritancy of Product: Can be irritating to eyes, skin, and respiratory tract.
Skin Sensitization: Can cause caustic burns and dermatitis when wet.
Respiratory Sensitization: Can cause chemical burn when wet. Respirable crystalline silica can cause silicosis and serious lung disease.

**Numerical Measures of Toxicity:** Not Available

**Carcinogenicity:** No causal association between this product exposure and cancer has been established, but Silica, Quartz (CAS# 14808-60-7), one of the ingredients is listed as carcinogen by IARC and NTP. The respirable dust is lower than 0.003% in this product. It is lower than the GHS classification concentration limit(≥0.1%), so the product is not classified as carcinogen.

- Silica, Quartz (CAS# 14808-60-7)
- IARC Group 1 (Carcinogenic to humans)
- ACGIH Group A2 (Suspected human carcinogen)
- NTP Known carcinogen

**Reproductive Toxicity:** Not Available

**Mutagenicity:** Not Available

**Name of Synergistic Products/ Effects:** Not Available

**Teratogenicity:** Not Available

**Embryotoxicity:** Not Available

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### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**
- The product is not expected to be hazardous to the environment.
- The addition of large amounts to water may, however, cause a rise in pH and may therefore be toxic to aquatic life under certain circumstances.

**Mobility:** Dry product is not volatile but might become airborne during handling operations.

**Persistence and degradability/Bio accumulative potential/Results of PBT Assessment/Other adverse effects:** Not Available

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### 13. DISPOSAL CONSIDERATIONS

Always dispose of in accordance with local, provincial (state), and federal regulations.

**Unused Residue or Dry Spillage:** Pick up dry material. Possibly reuse depending upon shelf life considerations and the requirement to avoid dust exposure. In case of disposal, harden with water and dispose according to local legislation.

**Slurries:** Allow to harden, avoid entry in sewage and drainage systems or into bodies of water and dispose according to 13.3.

**After Addition of Water and Hardened:**
- Dispose of according to local legislation. Avoid entry into the sewage water system.
- Dispose of the hardened product as concrete waste. Due to inertisation, concrete waste is not a dangerous waste.
- EWC entries: 10 13 14 (waste concrete or concrete sludge) or 17 01 01 (concrete).

**Packaging:**
- Completely empty the packaging and recycle / dispose in accordance with local legislation.
- EWC entry: 15 01 02 (plastic packaging).

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### 14. TRANSPORT INFORMATION

**Special Shipping Information:** This product is not listed as a Hazardous Material under TDG, DOT, IMDG, IATA and ADR/RID. No special precautions are needed apart from those mentioned under Section 8.

**PIN:** Not Applicable

**TDG (Canada):** Not regulated

**DOT (U.S.):** Not regulated

**ADR/RID:** Not regulated

**IMDG:** Not regulated

**IATA:** Not regulated

**UN Number:** Not listed
15. REGULATORY INFORMATION

This product is classified as non-Dangerous Goods.

**WHMIS Classification:** D2A, toxic; E, Corrosive (when moistened)

**European Hazard Symbol:** C, Corrosive (when moistened); T, Toxic; Xi, Irritant

**Globally Harmonized System (GHS) Classification:**
Acute Toxicity Category 4; Skin Corrosion/Irritation Category 1 (when moistened)

**HMIS:** Health *2; Flammability 0; Physical Hazard 1.

**OSHA:** This product is considered a hazardous chemical. It is recommended to follow “Safety and Health Program Management Guidelines” by OSHA.

**TSCA:** This product is exempted from TSCA because it is defined as a mixture.

**SARA:** This product is considered a hazardous chemical and has a delayed health hazard under section 311 and 312 of the Emergency Planning and Community Right to Know Act (EPCRA) of 1986. This product does not contain any ingredients regulated under Section 313 of the EPCRA, 1986 or 40 CFR 372.

**U.S. State Regulations:**
- New Jersey - Workplace Hazard
- Pennsylvania - Workplace Hazard
- California - Proposition 65
- Massachusetts - Hazardous Substance

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

**Abbreviations:**
- ACGIH: American Conference of Governmental Industrial Hygienists
- CAS#: Chemical Abstract Service number
- CPR: Controlled Products Regulations
- DOT: U.S. Department of Transportation
- EINECS: European Inventory of Existing Commercial Chemical Substances
- EPCRA: Emergency Planning and Community Right to Know Act
- EWC: European Waste Catalogue
- GHS: Globally Harmonized System
- HMIS: Hazardous Materials Identification System
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- IMDG: International Maritime Dangerous Goods
- LC50: Lethal Concentration
- LD50: Lethal Dose
- NIOSH: National Institute for Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible Exposure Limit
- SARA: Superfund Amendments and Reauthorization Act
- TDG: Transportation of Dangerous Goods
- TLV: Threshold Limit Value
- TSCA: Toxic Substance Control Act
- TWA: Time Weighted Average (8 hour)
- WELs: Workplace Exposure Limits
- WHMIS: Workplace Hazardous Materials Information System

**Hazard Statements in Full**
- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
H317  May cause allergic skin reaction
H335  May cause respiratory irritation
H373  May cause damage to respiratory organs through prolonged or repeated exposure

**Precautionary Statements in Full**

P201  Obtain special instructions before use
P202  Do not handle until all safety precautions have been read and understood
P260  Do not breathe dust
P264  Wash hands, forearms and exposed areas thoroughly after handling
P272  Contaminated work clothing should not be allowed out of the workplace.
P280  Wear protective gloves, protective clothing, face protection and eye protection

**Responsive Precautionary Statements**

P301, P330, P331 - If swallowed, rinse mouth, do not induce vomiting.
P303, P361, P353, P352 - If on skin or hair, remove all contaminated clothing, rinse skin thoroughly and wash with soap and water.
P304, P340 - If inhaled, remove person to fresh air and keep at rest in position of comfortable breathing
P305, P351, P338 - If in eyes, rinse with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P310 - Immediately call a poison center or doctor/physician

**Manufacture’s notes**

• The information on this data sheet reflects the currently available knowledge and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product, including the use of the product in combination with any other product or any other process, is the responsibility of the user.
• It is implicit that the user is responsible for determining appropriate safety measures and for applying the legislation covering his own activities.