



SMART CONCRETE®

HYDROSTOP SEALER K-773

WATER REPELLENT CONCRETE SEALER

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Identifier:

Hydrostop Sealer
Hydropel Sealer

Product Form: Mixture, Liquid

Other Means of identification: Hydrostop, Hydropel

Product Code: K-773

Recommended Use: Concrete and Masonry Sealer

Restriction on Use: For Professional Use Only

Manufacturer's Name: Kryton International Inc.

Address: 1645 E. Kent Avenue, Vancouver, BC, Canada, V5P2S8

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

SECTION 2: HAZARD IDENTIFICATION

Classification of the Mixture Classification GHS (7th edition)

Hazard Classification:

Skin Irritation, Category 2,

Eye Irritation, Category 2B

Acute Toxicity, Oral, Category 5

Acute Toxicity, Inhalation, Category 5

Reproductive toxicity, Category 2

Hazard Pictograms



Signal Word: **Warning**

Hazard Statements

H315+H320 Causes skin and eye irritation
H303 + H333 May be harmful if swallowed or inhaled
H361 Suspected of damaging fertility or the unborn child

Precaution Statements

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood.
P405 - Store locked up.
P501 - Dispose of container/contents to paint collection or recycling facility point in accordance with local regulations.
P280 - Wear protective gloves and eye protection.
P264 - Wash hands, forearms and exposed areas thoroughly after handling.
P261 - Avoid breathing mist or spray.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P305+P351+P338+P337+P313 - 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.
P302+P352+P332+ P313 - IF ON SKIN: Wash with plenty of water. IF SKIN irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P301+P312 - IF SWALLOWED: Call doctor if you feel unwell.
P304+P312 - IF INHALED: Call a doctor if you feel unwell.
P321 – First Aid – see Section 4 of this SDS.

Emergency Overview:

Opaque ivory liquid with, mild paint like odour. It is not combustible or explosive. Short-term exposure to the liquid presents little or no hazard. May irritate eyes, skin and respiratory tract. Overexposure may injure internally if absorbed. Sensitivity reactions may occur from prolonged and repeated exposure. Overexposure by ingestion may injure the following organ(s): Nervous system, brain, thymus, bladder or spleen.

(This products contains trace amount, <0.2%, of Ethyl alcohol and Octamethylcyclotetrasiloxane, which may damage fertility or the unborn child.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name CAS # EINECS	Content (% , w/w)	CAS #	EINECS #	Common Name
Triethoxy(octyl)silane	10-30%*	2943-75-1	220-941-2	Silicone
Octamethylcyclotetraasiloxane	< 0.2%	556-67-2	556-67-2	Silicone
Ethyl alcohol is formed upon contact with water or humid air	< 0.2%	64-17-5	200-578-6	Alcohol

*Actual concentration is withheld as a trade secret.

SECTION 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. Get immediate medical attention.

Skin:

Quickly and gently blot or brush away excess chemical. Wash with soap and water. Remove contaminated clothing, footwear, watches, etc. and clean thoroughly before re-using them. Seek immediate 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 immediate medical attention if discomfort remains.

Most Important Symptoms and Effects both Acute and Delayed Acute: Irritating to skin, eyes and respiratory tract.

Delayed: Suspected of damaging fertility or the unborn child.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability: Noncombustible

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

Unsuitable extinguishing media: None known.

Flashpoint and Method: Non-combustible, >200F

Autoignition Temperature: Not Applicable

Fire and Explosion Data: Not Applicable

Hazardous Combustion Products: Carbon oxides, formaldehyde, silicon dioxide and various hydrocarbon fragments.

Fire Fighting Instructions: Firefighters should wear self-contained breathing apparatus and full protective gear.

Fire Fighting Procedures: Use water spray to cool unopened containers. Evacuate area. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Remove undamaged containers from fire area if it is safe to do so.

SECTION 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: Soak up material with absorbent and transfer into a chemical waste container for recovery or disposal.

SECTION 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 organic vapor cartridge.

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.

Store locked up.

Incompatible materials: strong oxidizing agents.

Unsuitable materials for containers: None known.

Storage Requirements:

Bulk product should be stored in containers that are waterproof, clean and protected from contamination.

Keep containers tightly closed.

Protect from moisture.

Store in a cool, dry place.

Keep out of reach of children.

Store locked up.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits:

Triethoxyoctylsilane CAS#2943-75-1

WELs EH40/2005 (UK), 8 hr TWA, 2007: Not Available ACGIH TLV-TWA 2000: Not Available

OSHA PEL, 8-hr TWA: Not Available

Ethyl Alcohol CAS# 64-17-5 (formed upon contact with moisture) WELs EH40/2005 (UK), 8 hr TWA, 2007: 1.920 mg/m³

ACGIH TLV-TWA 2000: 1000ppm OSHA PEL, 8-hr TWA: 1000ppm

Octamethylcyclotetrasiloxane CAS#556-67-2

WELs EH40/2005 (UK), 8 hr TWA, 2007: Not Available ACGIH TLV-TWA 2000: Not Available

OSHA PEL, 8-hr TWA: Not Available

Specific Engineering Controls: Use general or local exhaust ventilation or use a properly fitted and NIOSH approved respirator with organic vapor cartridge.

Personal Protective Equipment:

Gloves: Chemical resistant rubber or nitrile gloves

Respirator: NIOSH approved and with organic vapor 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Odour and Appearance: Mild paint like odor, opaque ivory, thin viscosity liquid

Odour Threshold: Not Available

Specific Gravity: 1g/mL **Vapor Density:** Not Available **Vapor Pressure:** Not Available

Evaporation Rate: Not Available

Boiling Point: 99 °C **Melting Point:** 0 °C

pH : 7

Coefficient of Water/Oil Distribution: > 1, water soluble

Solubility in Water: Yes

Viscosity: 0.001 N s m⁻²

VOC content: VOC < 20 g/L (including water, California and OTC States), EU (w/w) < 2%

Flammability: Not Applicable

Flashpoint: Not Applicable

Upper/Lower Flammability or Explosive Limits: Not Applicable

Auto-ignition Temperature: Not Applicable

Decomposition Temperature: Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable

Reactivity: Not classified as a reactivity hazard.

Conditions to Avoid (Stability): None known

Incompatibility with Other Substances: Strong oxidizing agents, which may liberate Carbon oxides, formaldehyde, silicon dioxide and various hydrocarbon fragments.

Hazardous Polymerization: Cannot occur

Possibility of Hazardous Reactions: Water, moisture or humid air can cause Ethyl Alcohol.

Hazardous Decomposition Products: Carbon oxides, formaldehyde, silicon dioxide and various hydrocarbon fragments.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Skin Contact, Eye Contact, Inhalation and Ingestion

Effects of Acute Exposure to Product:

Skin Exposure: May irritate and cause local redness of skin. Prolonged skin contact may increase irritation or cause flaking or softening of skin. Absorption of harmful amount from prolonged skin contact is unlikely.

Eye Contact: May cause eye irritation and discomfort.

Respiratory Exposure: Brief exposure is unlikely to cause harmful effects. Vapor from heated material or mist may cause respiratory irritation.

Oral Toxicity: Low oral toxicity, harmful effects are not anticipated from small amounts.

Effects of Chronic Exposure to Product:

Information available on the ingredients from repeated dose toxicity studies in rats indicate neurological effects at doses of 1000mg/kg and reproductive toxicity in female rats. Overexposure by ingestion may injure the following organ(s): Nervous system, brain, thymus, bladder or spleen, urinary tract.

Irritancy of Product: Can be irritating to eyes, skin, and respiratory tract. **Skin Sensitization:** May occur from prolonged and repeated exposure

Respiratory Sensitization: None known

Numerical Measures of Toxicity: Triethoxyoctylsilane LD50 (Oral, Rat) > 5110 mg/kg, Octamethylcyclotetrasiloxane LD50 (Oral, Rat) > 4800 mg/kg, ethanol LD50 (Oral, Rat) 7060 mg/kg.

Acute Toxicity Estimate (ATE) for the Mixture: Based on the ingredients and their concentration, the mixture does not meet the classification for oral toxicity.

Carcinogenicity: This product does not contain any carcinogen at concentrations equal to or greater than 0.1% listed by IARC, ACGIH and NTP.

Reproductive Toxicity: Octamethylcyclotetrasiloxane (<0.2% in this product) posts evidence of reproductive effects in laboratory animals.

Teratogenicity: Ethyl Alcohol (<0.2% in this product) posts evidence of teratogenicity (birth defects) in humans.

Mutagenicity: Not Available

Embryotoxicity: Not Available

Name of Synergistic Products/ Effects: Not Available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: This product contains 0.02% of 1,2-Benzisothiazolin-3-one, BIT, which is toxic to fish (96hr LC50 5-50mg/L) and very toxic to algae (72hr EC50 0.37mg/L).

Mobility: Not Available.

Bio accumulative potential: BIT is not likely to bio-accumulate; there is evidence of photodegradation in water and soil.

Persistence and degradability: BIT is broken down in sewage treatment at concentrations <5ppm.

Other adverse effects: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

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

Unused Residue or Spillage:

Do not wash product down sewage and drainage systems or into bodies of water. In case of spillage, soak up material with absorbent and transfer into a chemical waste container for recovery or disposal. For disposal, send to a chemical waste disposal facility or other disposal methods according to local legislation.

EWC entries: 06 08 99 (silicon derivatives)

Packaging:

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

SECTION 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 **IMDG:** Not regulated **DOT (U.S.):** Not regulated **IATA:** Not regulated **ADR/RID:** Not regulated

UN Number: Not listed

SECTION15: REGULATORY INFORMATION

Globally Harmonized System (GHS) Classification:

Skin Corrosion/Irritation, Category 2, Serious Eye Damage/Eye Irritation, Category 2B, Acute Toxicity, Oral, Category 5, May be harmful if inhaled, Category 5, Reproductive toxicity, Category 2,

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

OSHA: This product is not considered a hazardous chemical.

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

SARA: This product is not considered a hazardous chemical 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.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

16. OTHER INFORMATION

Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
ADR/RID	Agreement on the Transport of Dangerous Goods by Road/ Regulations on the International Transport of Dangerous Goods by Rail
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

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.

SDS Prepared: August 1, 2010 Research and Development Department, Kryton International Inc.

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