

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Tech Shield TS-140
SYNONYMS: Not Applicable

SUPPLIER: Innovative Concrete Technology, LLC
92 Thomas Rd
Port Murray, New Jersey 07865 908-453-2737

NFPA Rating: Health: 1 Flammability: 0 Reactivity: 0
HMIS Classification: Health: 1 Flammability: 0 Reactivity: 0
Revision Date: January 2017

EMERGENCY TELEPHONE: **CHEMTREC: (800) 424-9300**
Outside USA - (703) 527-3887 collect calls accepted

EMERGENCY OVERVIEW:

Milky white liquid. Slight odor. Overexposure may cause eye or skin irritation.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient / CAS No.	Weight %	OSHA - PEL's	ACGIH 2002 - TLV's
Triethoxyoctyl-Silane / 2943-75-1	2.5 – 15.5	None Established.	None Established.

3. HAZARDS IDENTIFICATION

Hazard Information: Irritant
Eye Contact: May cause mild eye discomfort with slight redness.
Inhalation: Not considered hazardous under normal conditions of use. Overexposure to mist or spray may cause irritation of respiratory tract.
Skin Contact: Possible mild skin irritation on prolonged contact.
Ingestion: Seek medical advise as needed.
Aggravated Conditions: None known.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth.
Skin Contact:	Wash thoroughly with soap and water. Remove any contaminated clothing and wash before reuse. Should irritation develop get medical attention.
Eye Contact:	Remove contact lenses. Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Seek medical attention.
Ingestion:	Do NOT induce vomiting. Seek medical advise..
Notes To Physician:	None known.

5. FIRE FIGHTING MEASURES

Flash Point (°F/°C)	> 100° C
Flash Point Method:	DIN EN 22719 (DIN 51758)
Auto ignition Temp. (°F):	Not Determined
Flammable Limits in Air - Lower (%):	Not Determined
Flammable Limits in Air - Upper (%):	Not Determined
Extinguishing Media:	Once water evaporates from this aqueous solution the remaining material will burn. Use water spray, carbon dioxide or dry chemical media.
Fire Fighting Procedures:	No information currently available.
Special Exposure Hazards:	No information currently available.
Special Protective Equipment:	Fire fighters should wear full protective clothing, including self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Procedure for Cleaning/Absorption:	Stop leaks. Clean up spill immediately. Clean up large spills with vacuum truck. Soak up small spills with absorbent material. Spills of solution are extremely slippery so all residue should be removed promptly. Wear adequate personal protective clothing and equipment. (See section 8)
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7. HANDLING AND STORAGE

PRECAUTIONARY STATEMENTS:	CAUTION!
Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing mist or spray. Wear chemical splash goggles, gloves and protective clothing when handling. Use with adequate ventilation. Wash thoroughly after handling.
Storage:	For industrial use only. Mix well before using. Protect from freezing in storage and transit. Do not store below 10° C (50° F)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.
Respiratory Protection:	Wear NIOSH/MSHA approved respirator if necessary. Be sure to follow all manufactures instructions.
Gloves:	Appropriate chemical resistant gloves should be worn.
Skin Protection:	Normal work coveralls.
Eye Protection:	Chemical goggles or a face shield if splashing hazard exists.
Other Personal Protection Data:	Eyewash fountains and safety showers must be easily accessible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	LIQUID
Color:	White
Odor:	Slight
pH:	7.0 – 8.0
Specific Gravity (Water=1):	1.00 – 1.02
Density @ 20° C:	8.35 – 8.4 lbs/gal
Boiling Point (°F/°C):	212° F / 100° C
Melting Point Range (°F/°C):	Not Determined
Freezing Point/Range (°F/°C):	32°F / 0°C
Vapor Pressure:	Not Measured
Vapor Density (Air=1):	0.96 g/cm3
Evaporation Rate (BuAc=1):	Not Measured
Solubility in Water Description:	Completely dispersible
VOCs (lbs/gallon):	0.044 lbs/gallon (5.275 grams/liter)
Viscosity, Dynamic (Centipoise) @ 20° C:	<100 cps
Molecular Weight:	Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of handling, use and transportation.
Conditions to Avoid:	None
Materials to Avoid:	Contact with oxidizing agents. Strong alkalis.
Hazardous Decomposition Products:	In long term storage alcohol may build by hydrolysis
Hazardous Polymerization:	Will not occur.
Additional Guidelines:	None.

11. TOXICOLOGICAL INFORMATION

PRINCIPAL ROUTES OF EXPOSURE: Skin, eyes and respiratory tract.

Ingestion: Seek medical advise.

Skin Contact: Possible mild skin irritation after prolonged contact.

Inhalation: Not considered hazardous under normal conditions of use. Overexposure to mist or spray may cause irritation of respiratory tract.

Eye Contact: May cause mild eye irritation.

Carcinogenicity Status

(Chemical Name, Wt. %, CAS No.)

Trade Secret: Proprietary **Ingredients** 10 - 40

IARC Group 1, Group 2A or Group 2B Carcinogen: Not Listed

National Toxicology Program Known or Suspect Carcinogen: Not Listed

ACGIH Confirmed or Suspected Carcinogen: Not Listed

OSHA Select or Possible Select Carcinogen: Not Listed

Acute Oral LD50 (mg/kg): Not Determined

Acute Dermal LD50 (mg/kg): Not Determined

Acute Inhalation LC50 (mg/l): Not Determined

Mutagenicity/Genotoxicity: No mutagenicity or genotoxicity studies have been carried out with this product.

Other Information: Conclusions are drawn from sources other than direct testing.

12. ECOLOGICAL INFORMATION

Mobility: Not Determined

Persistence: Not Determined

Bioaccumulative: Not Determined

Ecotoxicological Information:

Acute Fish Toxicity: Not Available

Acute Crustaceans Toxicity: Not Available

Acute Algae Toxicity: Not Available

Chemical Fate Information: Not Determined

Other Information: Considered to be a weak water pollutant.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose of product in an approved industrial waste landfill or incinerate in accordance with applicable Federal, state and local regulations. Always avoid land filling liquids.

RCRA

Is the unused product a RCRA hazardous waste if discarded? (Yes/No)

No

If yes, the EPA Hazardous Waste Code is:

N/A

14. TRANSPORTATION INFORMATION

DOT:

DOT Status: NOT REGULATED.

ICAO/IATA:

Status: NOT REGULATED.

IMDG:

Status:
Flash Point (°F/°C)

NOT REGULATED.
Not Applicable

15. REGULATORY INFORMATION

International Inventories:

USA TSCA Inventory Status:	All of the components of this product are listed on the US EPA TSCA Inventory, or exempt from listing.
Canadian DSL:	All of the components of this product are listed on the Canadian Domestic Substances List.
Canadian NDSL:	Some of the components of this product are not found on the Canadian Non-Domestic Substances List.
European - EINECS:	All of the components of this product are listed on EINECS, or exempt from notification.
European - ELINCS.	All of the components of this product are not listed on ELINCS.
EU - No-Longer Polymers List:	None of the components of this product are listed on the EUNLP.
Japanese Chemical Inventory:	All of the components of this product are not listed on the JPENCS Inventory.
Philippines Chemical Inventory:	All of the components of this product are found on the Philippines Inventory.
Australian Chemical Inventory:	All of the components of this product are listed on the Australian Chemical Inventory.
Korean Chemical Inventory:	All of the components of this product are found on the Korean Existing Chemical Substances List.

State and Federal Regulations:
(Chemical Name, Wt. %, CAS No.)

New Jersey Trade Secret Registry Number(s):	N/A
SARA Section 311/ 312 Hazard Class:	This product is classified as a SARA ACUTE HEALTH HAZARD.
<u>Other Information:</u>	This product may contain trace amounts of ethylene oxide, a chemical known to State of California to cause cancer and reproductive effects.

16. OTHER INFORMATION

Reference Number:	0640
Additional Information:	None.
Important Note:	The information herein is given in good faith but no warranty, expressed or implied, is made.

END OF MSDS