



## SAFETY DATA SHEET

PLANIT SAFE™ Hi Ex 2% CHGDC2 SURROGATE TEST LIQUID  
Used as a Surrogate for Chemguard C2 Hi Ex Foam Concentrate

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### 1. IDENTIFICATION

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|--|--|
| <b>Product Name</b>  | Planit Safe™ Hi Ex 2% CHGDC2   |
| <b>Recommended use of the chemical<br/>And restrictions on use</b> | Surrogate Test Liquid<br>See Section 15                                |
| <b>Company Identification</b>                                      | Vector Fire Technology, Inc.<br>47 Sarahs Way<br>Coatesville, PA 19320 |
| <b>Customer Information Number</b>                                 | (610) 466-1717   |
| <b>Emergency Telephone Number</b>                                  | (610) 466-1717   |
| <b>Latest Issue Date</b>   | May 28, 2020   |
| <b>Supersedes Date</b>   | January 28, 2019   |

*Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)*

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### 2. HAZARD IDENTIFICATION

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#### Hazard Classification

Eye damage/Irritation – 2B

**Signal Word:** Warning

#### Hazard Statements

Contact with liquid may cause eye irritation.

#### Precautionary Statements

#### Prevention

Wash hands thoroughly after handling.

Wear eye protection.

#### Response

If in eyes: Flush with water for 15 minutes. Remove contact lenses if present and easy to do.

If eye irritation persists, get medical advice/attention.

#### Storage

None

#### Disposal

None

#### Other Hazards

Not identified

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### 2. HAZARD IDENTIFICATION

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#### Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity

Acute oral toxicity <10%

Acute dermal toxicity <10%

Acute inhalation toxicity <10%

Acute aquatic toxicity <10%



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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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This product is a mixture

| Component             | CAS Number | Concentration |
|-----------------------|------------|---------------|
| Water                 | 7732-18-5  | 85 – 90%      |
| Potassium Chloride    | 7447-40-7  | <5%           |
| Sodium Benzoate       | 532-32-1   | <5%           |
| Hydroxyethylcellulose | 9004-62-0  | <5%           |

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### 4. FIRST-AID MEASURES

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#### Description of necessary first-aid measures

##### Inhalation

No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of airborne aerosol mists, remove to fresh air. Seek medical attention if effects occur.

##### Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if irritation persists.

##### Skin

Wash skin thoroughly with soap and water. Launder clothing before re-use.

##### Ingestion

Swallowing less than an ounce is not expected to cause significant harm. For larger amounts, do not induce vomiting. Give milk or water. Never administer anything by mouth to an unconscious person. Seek medical attention.

##### Most important symptoms/effects, acute and delayed

Aside from the information found under Description of necessary first-aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

##### Indication of immediate medical attention and special treatment needed

None

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### 4. FIRST-AID MEASURES

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#### Notes to Physicians

Treat symptomatically

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### 5. FIRE-FIGHTING MEASURES

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#### Suitable Extinguishing Media



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Product is not an extinguishing media.

### Specific hazards arising from the chemical

None known

### Specific protective actions for fire-fighters

None

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## 6. ACCIDENTIAL RELEASE MEASURES

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### Personal precautions, protective equipment and emergency procedures

NOTE: Review FIRE-FIGHTING MEASURES and HANDLING (Personnel) sections before proceeding with clean-up. Use appropriate Personal Protective Equipment during clean-up. Exercise caution, surfaces may be slippery.

### Environmental Precautions

Stop flow if possible. Dilute with water to meet existing water quality standards. Flush area with water

### Methods and materials for containment and clean-up

Contain and absorb using appropriate inert materials and transfer into suitable containers for recovery or disposal in accordance with federal, state and local regulations.

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## 7. HANDLING AND STORAGE

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### Precautions for safe handling

Avoid contact with eyes, skin and clothing. Avoid ingestion or inhalation. Rinse skin and eyes thoroughly in case of contact. Review HAZARDS and FIRST-AID sections.

### Conditions for safe storage

Store in original containers or tanks designed for product storage, between 35°F and 120°F (2°C and 49°C). Storage area should be cool, dry, under cover and out of direct sunlight.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Control parameters

Exposure limits are listed below, if they exist.

### Appropriate engineering controls

Special ventilation is not required.

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### Individual protection measures

#### Respiratory Protection

Recommended exposure limits (OSHA-PEL and ACGIH-TLV) have not been determined for this material. The need for respiratory protection is not required.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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|  |                         |
|--|-------------------------|
| <b>Appearance</b>                              |                         |
| <b>Physical State</b>                          | Liquid                  |
| <b>Color</b>                                   | Clear                   |
| <b>Odor</b>                                    | Bland                   |
| <b>Odor Threshold</b>                          | No data available       |
| <b>pH</b>                                      | 6.8 – 8.0               |
| <b>Specific Gravity</b>                        | 1.00 – 1.04 @ 20 deg. C |
| <b>Boiling Range/Point (°C/F)</b>              | No data available       |
| <b>Melting Point</b>                           | No data available       |
| <b>Flash Point</b>                             | No data available       |
| <b>Vapor Pressure</b>                          | No data available       |
| <b>Evaporation Rate (BuAc=1)</b>               | <1                      |
| <b>Solubility in Water</b>                     | Soluble (100%)          |
| <b>Vapor Density (Air = 0)</b>                 | n/a                     |
| <b>VOC %</b>                                   | No data available       |
| <b>Partition coefficient (n-octanol/water)</b> | No data available       |
| <b>Viscosity</b>                               | 100 CPS +/- 20 CPS      |
| <b>Auto-Ignition Temperature</b>               | n/a                     |
| <b>Decomposition Temperature</b>               | No data available       |
| <b>Upper explosive limit</b>                   | n/a                     |
| <b>Lower explosive limit</b>                   | n/a                     |
| <b>Flammability (solid, gas)</b>               | n/a                     |

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### 10. STABILITY AND REACTIVITY

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**Reactivity**

None

**Chemical Stability**

Stable

**Possibility of Hazardous Reactions**

Hazardous polymerization will not occur

**Conditions to Avoid**

Contact with incompatible materials

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### 10. STABILITY AND REACTIVITY

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**Incompatible Materials**

Water reactive materials- burning metals – electrically energized equipment

**Hazardous Decomposition Products**

None



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### 11. TOXICOLOGICAL INFORMATION

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#### Acute Toxicity

Mammalian Toxicity – This product has not been tested as a whole for acute oral and inhalation toxicity, primary eye irritation, or primary skin irritation.

#### Specific Target Organ Toxicity (STOT) – single exposure

No data available

#### Specific Target Organ Toxicity (STOT) – repeat exposure

No data available

#### Serious Eye Damage/Irritation

No data available

#### Respiratory or Skin Sensitization

No data available

#### Carcinogenicity

No data available

#### Germ Cell Mutagenicity

No data available

#### Reproductive Toxicity

No data available

#### Aspiration Hazard

No data available

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### 12. ECOLOGICAL INFORMATION

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#### Ecotoxicity

See Ecotoxicological information Aquatic Toxicity below

#### Mobility in Soil

No relevant studies identified

#### Persistence/Degradability

See Environmental Fate below

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### 12. ECOLOGICAL INFORMATION

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#### Bioaccumulative Potential

No relevant studies identified

#### Other Adverse Effects

No relevant studies identified



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### Environmental Fate

|             | As Shipped<br>(mg/l) | As Proportioned Stream (2% by volume with water)<br>(mg/l) |
|-------------|----------------------|--|
| BOD – 5 Day | 7,930                | 152  |
| COD         | 14,410               | 267  |

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### 13. DISPOSAL CONSIDERATIONS

Planit Safe™ Hi Ex 2% CHGDC2 Surrogate test liquid, as sold, is not a RCRA-listed waste or hazardous waste as characterized by 40 CFR 261. However, state and local requirements for waste disposal may be more restrictive or otherwise different from Federal regulations. Proper clean-up and disposal of this material into drains, sewers, or waterways is not expected to cause an environmental impact, however, consult with state and local authorities having jurisdiction regarding the proper regulations or concerns encompassed within your site disposal plan.

Planit Safe™ Hi Ex 2% CHGDC2 Surrogate test liquid can be treated by waste water treatment facilities. Discharge into biological sewer treatment facilities may be done with prior approval. Specific concerns are high BOD load. Dilution will reduce BOD and COD factors proportionately. Low dosage flow rate to the treatment plant may be helpful. Disposal should be made in accordance with federal, state and local regulations. **This material is non-foaming.**

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### 14. TRANSPORT INFORMATION

Shipping information

Proper Shipping Name: Not a DOT Hazardous Substance

Hazard Class: Not Regulated

UN Number: none

This information is not intended to convey all transportation classifications that may apply to this product. Classifications may vary by container volume and by regional regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules when transporting this material.

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### 15. REGULATORY INFORMATION

#### U.S. Federal Regulations

#### Toxic Substances Control Act (TCSA)

All components of this product are listed in the TSCA inventory.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III

#### SARA Title III Sect. 302/304

There are no components of this material with known CAS numbers that are on the Extremely Hazardous Substances (EHS) list.



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### SARA Title III Sect. 311/312 Categorization

This material does not contain any components subject to Sections 311 and 312 reporting requirements.

### SARA Title III Sect. 313

This material does not contain any components subject to Sections 313 reporting requirements.

### Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

This material does not contain any components that are subject to the reporting requirements of the CERCLA.

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## 16. OTHER INFORMATION

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### NFPA Ratings

NFPA Code for Health - 0

NFPA Code for Flammability - 0

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards – None

### State Regulations

#### Pennsylvania Right-To-Know Hazardous Substance List

PA Hazardous Substance present at levels greater than 1%

None

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## 16. OTHER INFORMATION

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### Legend

ACGIH: American Conference of Governmental Industrial Hygienists

BOD5: Biochemical Oxygen Demand (5 day)

CAS#: Chemical Abstracts Service Number

COD: Chemical Oxygen Demand

EC50: Effect Concentration 50%

IARC: International Agency for Research on Cancer LC50:

Lethal Concentration 50%



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LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available

OSHA: Occupational Safety and Health Administration PEL:

Permissible Exposure Limit

RQ: Reportable Quantity

STEL: Short Term Exposure Limit

N/A: Denotes no applicable information found or available

OSHA: Occupational Safety and Health Administration PEL:

Permissible Exposure Limit

RQ: Reportable Quantity

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

Revision Date: May 28, 2020

Replaces: January 28, 2019

Changes made: Added BOD and COD environmental fate information & removed fish tox study reference

### Information Source and References

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