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**1. IDENTIFICATION**

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<b>Product Name</b>	Planit Safe™ 1 X 3 – XXXX*
<b>Recommended use of the chemical</b>	Surrogate Test Liquid
<b>And restrictions on use</b>	See Section 15
<b>Company Identification</b>	Vector Fire Technology, Inc. 47 Sarahs Way Coatesville, PA 19320
<b>Customer Information Number</b>	(610) 466-1717
<b>Emergency Telephone Number</b>	(610) 466-1717
<b>Issue Date</b>	Oct. 10, 2017
<b>Supersedes Date</b>	This is the first issue

*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)*

\* Refer to Section 9 Physical and Chemical Properties

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**2. HAZARD IDENTIFICATION**

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**Hazard Classification**  
Eye damage/Irritation – 4

**Label Elements**  
Hazard Symbols



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%
Xanthan Gum	11138-66-2	<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**

Product is not an extinguishing media. Use appropriate for surrounding materials.

##### **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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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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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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**Appearance**

<b>Physical State</b>	Liquid
<b>Color</b>	Water White
<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 (centipoise)</b>	1500 – 4500 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

\* Non-Newtonian liquid. Viscosity varies with shear rate. XXXX Designation reflects measured viscosity under laboratory conditions.

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**10. STABILITY AND REACTIVITY**

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**Reactivity**

No data available

**Chemical Stability**

Stable

**Possibility of Hazardous Reactions**

Hazardous polymerization will not occur



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**10. STABILITY AND REACTIVITY**

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**Conditions to Avoid**

Contact with incompatible materials

**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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No relevant studies identified  
Bioaccumulative Potential

Other Adverse Effects  
No relevant studies identified

**Ecotoxicological Information Aquatic Toxicity**

The acute toxicity of Planit Safe™ 3 X 3 – XXXX Surrogate Test Liquid has been studied and determined to have no adverse effects when evaluated in a 96 hour flow-through Aquatic Effect Test using Killifish, *Fundulus Heteroclitus* as a test specimen. A 6% concentration of Planit Safe™ 3 X 3 – XXXX Surrogate Test Liquid was used for this test and the 96 hour LC<sub>50</sub> was determined to be > 66,637 mg/l and NOEC to be 66,667 mg/l (6% solution).

**Environmental Fate**

	<b>As shipped (mg/l)</b>	<b>As proportioned at 3% with water (mg/l)</b>
BOD <sub>5</sub>	8,320	250
COD	16,900	507

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**13. DISPOSAL CONSIDERATIONS**

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Planit Safe™ 1 X 3 – XXXX Surrogate Test Liquid Concentrate, 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™ 1 X 3 – XXXX Surrogate Test Liquid Concentrate 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**

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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**

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**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.

**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%  
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

Release Date: Oct. 10, 2017

**Information Source and References**

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