

# SAFETY DATA SHEET

PLANIT SAFE <sup>™</sup> 3SFF-USP SURROGATE TEST LIQUID

# 1. IDENTIFICATION

Product Name Recommended use of the chemical And restrictions on use Company Identification	Planit Safe <sup>™</sup> 3SFF- USP Surrogate Test Liquid See Section 15 Vector Fire Technology, Inc. 1017 Charles St. Unit B Coatesville, PA 19320		
Customer Information Number	(610) 466-1717		
Emergency Telephone Number Issue Date	(610) 466-1717 November 17, 2022		
Revision Date	April 24, 2025 – Rev. B 042425		
Supersedes Date	3/25/25		
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

# 2. HAZARD IDENTIFICATION

# 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.

## Beenenee

# 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

# Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicityAcute oral toxicity<5%</td>Acute dermal toxicity<5%</td>Acute inhalation toxicity<5%</td>Acute aquatic toxicity<5%</td>

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

This product is a mixture

Component	CAS Number	Concentration
Water	7732-18-5	88-91%
Potassium Chloride	7447-40-7	<2%
Sodium Benzoate	532-32-1	<1%
Potassium Sorbate	24634-61-5	<1%
Propylene Glycol	57-55-6	<9%
Xanthan Gum	11138-66-2	<2%

# 4. FIRST-AID MEASURES

# **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.



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#### 4. **FIRST-AID MEASURES**

# 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

**Notes to Physicians** 

Treat symptomatically

#### 5. **FIRE-FIGHTING MEASURES**

# 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

#### **ACCIDENTIAL RELEASE MEASURES** 6.

# 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.

#### 7. HANDLING AND STORAGE

# 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.



# 7. HANDLING AND STORAGE

# 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.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Control parameters**

Exposure limits are listed below, if they exist.

# Appropriate engineering controls

Special ventilation is not required.

# 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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Appearance

Appearance	
Physical State	Liquid
Color	Water White
Odor	Bland
Odor Threshold	No data available
рН	6.3 – 7.2
Specific Gravity	1.00 – 1.02 @ 20 deg. C
Boiling Range/Point (°C/F)	84.4 C, 185 F
Melting Point	4.4 C, 24 F
Flash Point	n/a - water based liquid
Vapor Pressure	No data available
Evaporation Rate (BuAc=1)	<1
Solubility in Water	Soluble (100%) – requires physical agitation
Vapor Density (Air = 0)	n/a
VOC %	No data available
Partition coefficient (n-	
octanol/water)	No data available
Viscosity (centipoise)	200 – 8000 cps*
Auto-Ignition Temperature	n/a
Decomposition Temperature	No data available
Upper explosive limit	n/a
Lower explosive limit	n/a
Flammability (solid, gas)	n/a

\* Non-Newtonian shear sensitive liquid. Viscosity varies with shear rate.



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#### 10. **STABILITY AND REACTIVITY**

# Reactivity

No data available

#### **Chemical Stability** Stable

**Possibility of Hazardous Reactions** Hazardous polymerization will not occur

# **Conditions to Avoid**

Contact with incompatible materials

# **Incompatible Materials**

Water reactive materials- burning metals - electrically energized equipment

# **Hazardous Decomposition Products**

None

#### 11. **TOXICOLOGICAL INFORMATION**

# **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

Ecotoxicity See Ecotoxicological Information Aquatic Toxicity below.

Mobility in Soil No relevant studies identified

Persistence/Degradability See Environmental Fate below

No relevant studies identified Bioaccumulative Potential

Other Adverse Effects No relevant studies identified

# **Ecotoxicological Information Aquatic Toxicity**

The acute toxicity of Planit Safe<sup>TM</sup> 3SFF SP-100 Surrogate Test Liquid has been studied and determined to have no adverse effects when evaluated in a 96-hour dilution series test using Fathead Minnows, *Pimephales promelas*, as a test specimen. This testing protocol was performed in accordance with EPA Method 2000.0. The 96-hour EC<sub>50</sub>/LC<sub>50</sub> was determined to be 63,710 mg/L. It is unlikely that Planit Safe in the environment would approach the highest concentration used in this dilution series.

# **Environmental Fate**

	Method	As shipped (mg/L)	As proportioned (diluted) at 3% with water (mg/L)
BOD <sub>5</sub>	SM 5210 B	99,300	2,979
COD	EPA 410.4	183,667	5,510

# 13. DISPOSAL CONSIDERATIONS

Planit Safe<sup>™</sup> 3SFF- USP 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<sup>™</sup> 3SFF- USP Surrogate Test Liquid Concentrate can be treated by wastewater 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**.



# 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.

# 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.

## 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.

# 16. OTHER INFORMATION

## **NFPA Ratings**

NFPA Code for Health - 0

NFPA Code for Flammability - 0

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards – None



# 16. OTHER INFORMATION

# **State Regulations**

# Pennsylvania Right-To-Know Hazardous Substance List

PA Hazardous Substance present at levels greater than 1% None

# 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 TLV: Threshold Limit Value TSCA: Toxic Substance Control Act

Release Date: Nov. 17, 2022 Latest Revision Date: April 24, 2025 Changes made: Updated to include most recent environmental fate (BOD₅ and COD) data.

# **Information Source and References**

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