



# Building Permit Application

Howard County Maryland  
Department of Inspections, Licenses and Permits  
3430 Court House Drive  
Permits: 410-313-2455  
www.howardcountymd.gov

Date Received: \_\_\_\_\_

Permit No.: \_\_\_\_\_

Building Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Suite/Apt. # \_\_\_\_\_ SDP/WP/BA #: \_\_\_\_\_  
Census Tract: \_\_\_\_\_ Subdivision: \_\_\_\_\_  
Section: \_\_\_\_\_ Area: \_\_\_\_\_ Lot: \_\_\_\_\_  
Tax Map: \_\_\_\_\_ Parcel: \_\_\_\_\_ Grid: \_\_\_\_\_  
Zoning: \_\_\_\_\_ Map Coordinates: \_\_\_\_\_ Lot Size: \_\_\_\_\_  
Existing Use: \_\_\_\_\_  
Proposed Use: \_\_\_\_\_  
Estimated Construction Cost: \$ \_\_\_\_\_  
Description of Work: \_\_\_\_\_  
Occupant/Tenant Name: \_\_\_\_\_  
Was tenant space previously occupied? ☐ Yes ☐ No  
Contact Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

Property Owner's Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_  
Applicant's Name & Mailing Address, (if other than stated herein)  
Applicant's Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_  
Contractor Company: \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
License No.: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_  
Engineer/Architect Company: \_\_\_\_\_  
Responsible Design Prof.: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

Commercial Building Characteristics	Residential Building Characteristics
Height: _____	<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse
No. of stories: _____	Depth _____ Width _____
Gross area, sq. ft./floor: _____	1 <sup>st</sup> floor: _____
Area of construction (sq. ft.): _____	2 <sup>nd</sup> floor: _____
Use group: _____	Basement: _____
Construction type: _____	<input type="checkbox"/> Finished Basement
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Unfinished Basement
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Crawl Space
<input type="checkbox"/> Masonry	<input type="checkbox"/> Slab on Grade
<input type="checkbox"/> Wood Frame	No. of Bedrooms: _____
<input type="checkbox"/> State Certified Modular	Multi-family Dwelling
	No. of efficiency units: _____
	No. of 1 BR units: _____
	No. of 2 BR units: _____
	No. of 3 BR units: _____
	Other Structure: _____
	Dimensions: _____
➤ Roadside Tree Project Permit	Footings: _____
<input type="checkbox"/> Yes <input type="checkbox"/> No	Roof: _____
Roadside Tree Project Permit # _____	<input type="checkbox"/> State Certified Modular
	<input type="checkbox"/> Manufactured Home

Utilities
Electric: <input type="checkbox"/> Yes <input type="checkbox"/> No
Gas: <input type="checkbox"/> Yes <input type="checkbox"/> No
Water Supply
<input type="checkbox"/> Public
<input type="checkbox"/> Private
Sewage Disposal
<input type="checkbox"/> Public
<input type="checkbox"/> Private
Heating System
<input type="checkbox"/> Electric <input type="checkbox"/> Oil
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas
<input type="checkbox"/> Other: _____
Sprinkler System:
<input type="checkbox"/> Yes <input type="checkbox"/> No
Grading Permit Number: _____
Building Shell Permit Number: _____

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature \_\_\_\_\_  
Email Address \_\_\_\_\_  
Title/Company \_\_\_\_\_

Print Name \_\_\_\_\_  
Date \_\_\_\_\_

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

\*\*PLEASE WRITE NEATLY & LEGIBLY\*\*

-FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	6/17	[Signature]
Is Sediment Control approval required for issuance? <input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> CONTINGENCY CONSTRUCTION START		

DPZ SETBACK INFORMATION
Front: _____
Rear: _____
Side: _____
Side St.: _____
All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone: _____
SDP/Red-line approval date: _____

Filing Fee	\$ _____
Permit Fee	\$ _____
Tech Fee	\$ _____
Exche Tax	\$ _____
PSFS	\$ _____
Guaranty Fund	\$ _____
Add'l per Fee	\$ _____
Total Fees	\$ _____
Sub-Total Paid	\$ _____
Balance Due	\$ _____
Check	# _____

Distribution of Copies: White: Building Officials Green: PSZA, Zoning Yellow: PSZA, Engineering Pink: Health Gold: SHA

To whom it may concern,

This is a statement from S&G Tech Group to answer the requested question of "*a statement from the tenant describing the specific use and process that will occur within the space*". We are a 3D printing service company, our entire operation will solely focus on 3D printing. Given the nature of 3D printing and its unfamiliarity to the public, we will keep the description as simple to understand as we could.

Our space will have two separated sections, one is our office where desks, chairs, and computer etc. will be stationed. The other room is named printing area where printers and everything that are associated with the printer will be kept here. No desks, chairs, nor other office supplies will be put into printing area.

Our entire 3D printing process can be understood into three different phase. They are pre-processing, printing, and post-processing. During the first phase, which is pre-processing, the file or model will go through different software and will be sliced into certain computer format which printer can access. This process is done via computer in our office only. Second phase is printing, where we will load the file onto printers and command the printer to start the job. The last phase is post-processing, when the job is done, we take the parts out and package them. Sometime we need to using water to bath the parts in order to get better finishing. Both second and third phase will occur in printing area.

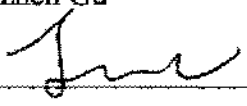
All the materials in our operations are safe to use and have no specific requirements to handle. We have no materials that are listed under Table 307.1 of the International Building Code, 201.

Thank you for your time and please let us know if there are any questions and concerns.

Best,

S&G Tech Group

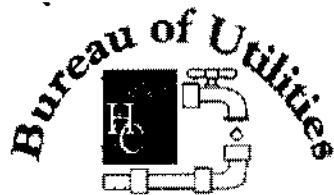
President: Jinzhen Gu

Signature: 

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SEP 18 2017

LICENSES & PERMITS  
DIVISION



Little Patuxent Water Reclamation Plant  
8900 Greenwood Place  
Savage, Maryland 20763  
410-313-1200  
410-313-1207 (FAX)

September 18, 2017

**Subject: Discharge from S & G Tech Group Corporation**

Dear Owner/Manager,

Upon review of the information provided to our office on September 15<sup>th</sup>, 2017 by Weiyi Song, we found that there are no pretreatment requirements at this time for S and G Tech Group Corporation in Elkrige, Maryland. There are no Federal and/or State Requirements governing the 3-D printing process that this facility is to implement. If the Federal and/or State Governments institutes regulations or if Howard County Bureau of Utilities does find any infractions with the discharge coming from this location then a re-evaluation of this facility will need to be done.

If there any changes in amount of production and/or processes used then S and G Tech Group Corporation must reach out to the Pretreatment Department for further guidance.

Sincerely,

Gregory Sherman  
Pretreatment Coordinator  
Pretreatment Program  
Direct Line: 410-313-1224  
Main Line: 410-313-1227  
Fax Line: 410-313-1207  
[gsherman@howardcountymd.gov](mailto:gsherman@howardcountymd.gov)

**RECEIVED**

SEP 18 2017

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DIVISION

*Reliable professionals delivering customer-focused water services*

## 2 Physical Description

### 2.1 Configuration

The Stratasys J750 3D printing system consists of the following main components:

- The printer
- The printer computer (built into the printer)
- A printer-server workstation (computer provided by the customer)



Figure 1 Stratasys J750 printer

### 2.2 Size and Weight

Table 1 Printer size and weight

Unit	W x H x D (mm)	W x H x D (in)	Weight (kg / lb)
Printer	140 x 126 x 110	55.1 x 49.6 x 43.3	430 kg / 948 lb
Materials cabinet	67 x 117 x 64	26.4 x 46.1 x 25.2	152 kg / 335 lb



W = Width, H = Height, D = Depth

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SEP 18 2017

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DIVISION

## 6 Electrical Requirements

The customer is responsible for ensuring that all tasks described in this section are carried out by qualified personnel.

### 6.1 Power

A stable, reliable source of power is required. Power to the UPS (or printer) should be supplied directly from the main electrical panel. The line should not be connected to other electrical outlets.

Printer power rating:

- 100–120 VAC, 50–60 Hz, 13.5 A , 1 phase
- 220–240 VAC, 50–60 Hz, 7 A , 1 phase

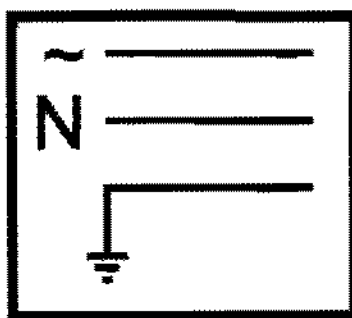


Figure 4 Wiring diagram

If the power output at the facilities is different from specified above, contact your Stratasys specialist.

### 6.2 Circuit Breaker

A Type-C circuit breaker with the following specification is required on the power line (subject to the local electrical code).

The following table lists the requirements for the circuit breaker.

Table 3 Circuit breaker

Voltage	Circuit Breaker
100–120 VAC	15 A or 16 A
220–240 VAC	10 A

### 6.3 Grounding

The printer is grounded through a single-phase, AC plug. Make sure that the AC outlet is properly grounded, in accordance with local electrical codes.

### 6.4 Residual Current Device (RCD)

The wall outlet must be connected to a residual current device (RCD)—also known as a ground current-leakage detector—that protects the circuit from a current leakage of more than 30 mA.

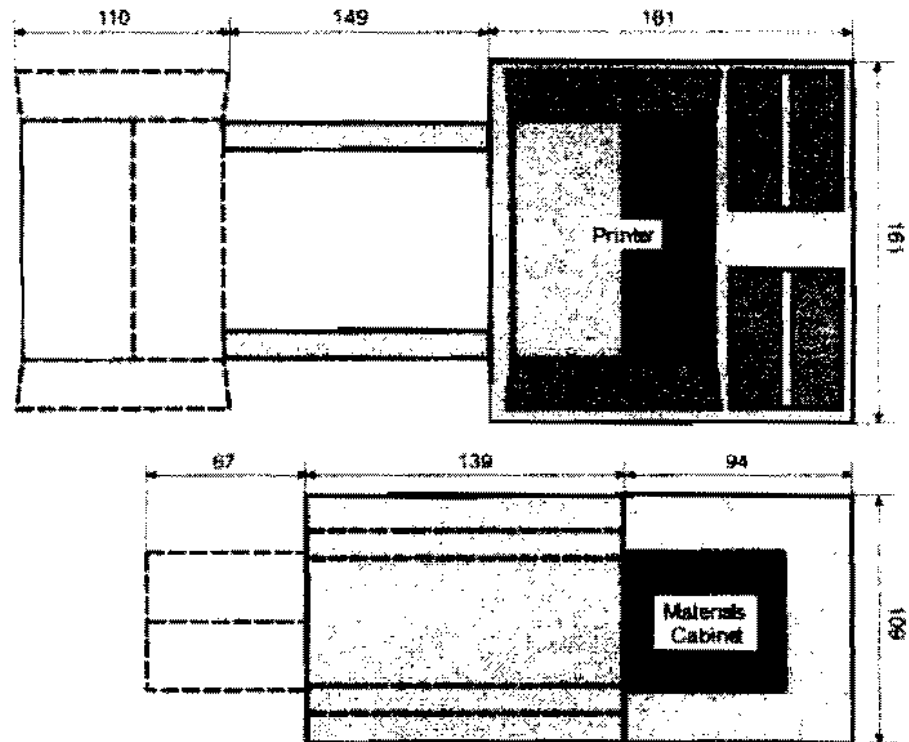


Figure 2 Unloading dimensions—top view

## 4.1 Floor Plan (Printer Area)

The following is a sample floor plan, showing the 3D printing system—the printer and the server workstation. The dimensions shown in the figure are the minimum clearance requirements.

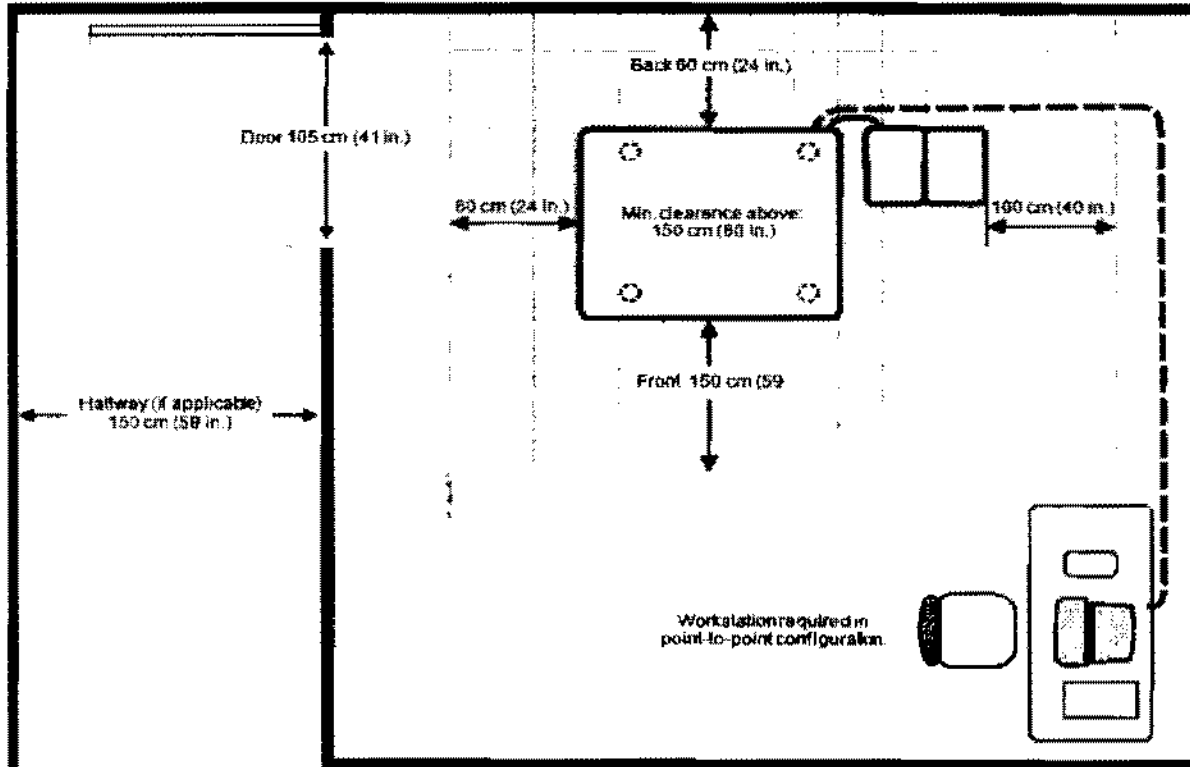


Figure 3 Printer floor plan sample (not to scale)

# PolyJet 3D printing material

## How PolyJet works

PolyJet 3D Printing works similarly to inkjet printing, but instead of jetting drops of ink onto paper, PolyJet 3D Printers jet layers of curable liquid photopolymer onto a build tray.

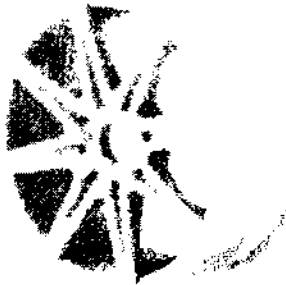
The process is simple:

- **Pre-processing:** Build-preparation software automatically calculates the placement of photopolymers and support material from a 3D CAD file.
- **Production:** The 3D printer jets and instantly UV-cures tiny droplets of liquid photopolymer. Fine layers accumulate on the build tray to create one or several precise 3D models or parts. Where overhangs or complex shapes require support, the 3D printer jets a removable support material.
- **Support removal:** The user easily removes the support material by hand, or with water. Models and parts are ready to handle and use right out of the 3D printer, with no post-curing needed.





*Figure 1 Input Vero Material*



*Figure 2 Actual Product*



*Figure 3 Demonstrating how to install material into the printer*



# SAFETY DATA SHEET

Issuing Date 24-Mar-2016

Revision Date 02-Mar-2016

STRATASYS REVISION: A

## 1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/ UNDERTAKING

### Product identifier

Product Name VEROWHITEPLUS RGD835

### Other means of identification

Product Code(s) SDS-06124

UNID no. UN3082

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Printing inks

Uses advised against This product is a cartridge containing ink. Under normal conditions of use, the substance is released from a cartridge only inside an appropriate printing system, and therefore, exposure is limited

### Details of the supplier of the safety data sheet

#### Manufacturer Address

9600 West 75th Street Suite #108, Eden Prairie, MN 55344

### Emergency telephone number

Company Phone Number +49 722 97 77 20

Emergency Telephone

- +49 722 97772280 - Europe - Multi lingual response
- +49 722 97772281 - Global - English Language response
- +1 978 495 5580 - USA - Multi-lingual response
- +85 2 975 70887 - Asia Pacific - Multi lingual response
- +61 2 8011 4783 - Australia - Multi lingual response
- +86 15626070595 - China - Chinese response

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1B
Carcinogenicity	Category 2
Reproductive toxicity	Category 2

Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

### Label elements

**Danger**

### Hazard statements

Harmful if swallowed  
Causes skin irritation  
Causes serious eye damage  
May cause an allergic skin reaction  
Suspected of causing cancer  
Suspected of damaging fertility or the unborn child  
May cause respiratory irritation  
May cause damage to organs through prolonged or repeated exposure



<b>Appearance</b>	Ink cartridge	<b>Physical state</b>	liquid	<b>Odor</b>	Characteristic
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### Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Contaminated work clothing must not be allowed out of the workplace  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

### Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention  
Specific treatment (see . ? on this label)  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor  
IF ON SKIN: Wash with plenty of water and soap  
Take off contaminated clothing and wash it before reuse  
If skin irritation or rash occurs: Get medical advice/attention  
IF INHALED: Remove person to fresh air and keep comfortable for breathing  
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
Rinse mouth

### Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

### Other Information

May be harmful in contact with skin Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

Unknown acute toxicity 21,728 % of the mixture consists of ingredient(s) of unknown toxicity

### 2. COMPONENTS AND MIXTURE INFORMATION

#### Substance

Chemical name	CAS No.	Weight %	Proprietary
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	20 - 30	*
Proprietary	Proprietary	20 - 30	*
Proprietary	Proprietary	10 - 20	*
Proprietary	Proprietary	10 - 20	*
TRICYCLODECANE DIMETHANOL DIACRYLATE	42594-17-2	10 - 20	*
Proprietary	Proprietary	1 - 5	*
Proprietary	Proprietary	1 - 5	*
Titanium dioxide	13463-67-7	0.1 - 1	*
Proprietary	Proprietary	0.1 - 1	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention.
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** Burning sensation, itching, Rashes, Hives.

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

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the

	surrounding environment.
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
Explosion data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 9. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Other Information	Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so.
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### Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

### Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes. Avoid breathing vapors or mists.
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### Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.
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**Control parameters****Exposure Limits**

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	OSHA PEL	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>

**Appropriate engineering controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tight sealing safety goggles.

**Hand Protection**

Wear suitable gloves. Impervious gloves.

**Skin and body protection**

Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

**Information on basic physical and chemical properties**

Physical state	liquid
Appearance	Ink cartridge
Odor	Characteristic
Color	white
Odor threshold	No information available

Property	Values	Remarks • Method
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	> 100 °C / 212 °F	
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility in other solvents	No data available	None known

Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	

**Other Information**

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available

**10. STABILITY AND REACTIVITY**

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.
Hazardous decomposition products	Thermal Decomposition Products. Combustion: oxides of carbon.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes. (based on components).
Skin contact	Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).

**Information on toxicological effects**

Symptoms	Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.
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**Numerical measures of toxicity****Acute toxicity**



The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	1,335.00 mg/kg
ATEmix (dermal)	2,262.00 mg/kg
ATEmix (inhalation-dust/mist)	13.76 mg/l

Unknown acute toxicity 21.728 % of the mixture consists of ingredient(s) of unknown toxicity

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate 5888-33-5	= 4690 mg/kg ( Rat )	> 3000 mg/kg ( Rabbit )	-
Proprietary	588 mg/kg (rat)	> 2000 mg/kg (rat)	5.28 mg/l (rat)
Proprietary	(Rat) LD50 = 1,590 - 3,910 mg/kg	(Rabbit) LD50 = > 2,000 mg/kg	(Rat) 1 h LC0 = 6.7 mg/l
Proprietary	>2000 mg/kg (Rat)	>2000 mg/kg	-
TRICYCLODECANE DIMETHANOL DIACRYLATE 42594-17-2	2,000 mg/kg (Rat) (Method: OECD Test Guideline 423)	2,000 mg/kg (Rat)(Method: OECD Test Guideline 402)	-
Proprietary	rat (oral): > 2,500 mg/kg (OECD Guideline 423)	> 5,000 mg/kg (OECD Guideline 402)	> 1 mg/l 4 h (OECD Guideline 403)
Proprietary	> 5,000 mg/kg (Rat) (OECD Guideline 401)	> 2,000 mg/kg (Rat) (OECD Guideline 402)	-
Titanium dioxide 13463-67-7	> 10000 mg/kg ( Rat )	-	-

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.
Respiratory or skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	No information available.
Carcinogenicity	Classification based on data available for ingredients. Contains a known or suspected carcinogen.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	Agency 1	Agency 2	Agency 3	Agency 4
Titanium dioxide 13463-67-7	-	Group 2B	-	X

Reproductive toxicity	Classification based on data available for ingredients. Contains a known or suspected reproductive toxin. The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.
STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	No information available.

**Ecotoxicity**

Chemical name	Aquatic plants	Fish	Insects	Crustacea
Exo-1,7,7-trimethylbicyclo [2.2.1]hept-2-yl acrylate 5888-33-5	1.98 mg/l Fresh water	0.704 mg/l Fresh water	-	0.524 mg/l Fresh water
Proprietary	120 mg/l (algae)	-	-	120 mg/kg (daphnia)
Proprietary	Pseudokirchneriella subcapitata (green algae) 96 h EC50 = 0.17 mg/l	Oncorhynchus mykiss (rainbow trout) 96 h LC50 = 27 mg/l	-	Daphnia magna (Water flea) 48 h EC50 = 95 mg/l
TRICYCLODECANE DIMETHANOL DIACRYLATE 42594-17-2	(Pseudokirchneriella subcapitata) : 1.6 mg/l (Method: OECD Test Guideline 201)	(Fish) : 4.95 mg/l	-	(Daphnia magna Straus) : 2.35 mg/l (Method: OECD Test Guideline 202)
Proprietary	14.4 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201, static)	24 mg/l, Brachydanio rerio (Directive 92/69/EEC, C.1, static)	-	53.9 mg/l, Daphnia magna (OECD Guideline 202, part 1, semistatic)
Proprietary	> 2.01 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)	6.53 mg/l, Oryzias latipes (JIS K 0102-71, semistatic)	-	3.53 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

**Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**DOT**

UN/ID no.	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard Class	9
Packing Group	III
Special Provisions	8, 146, 173, 335, IB3, T4, TP1, TP29
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
Emergency Response Guide Number	171

**IDG**

UN/ID no. UN3082  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Hazard Class 9  
Packing Group III  
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

**MEX**

UN/ID no. UN3082  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Hazard Class 9  
Special Provisions 274, 331, 335  
Packing Group III  
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

**ICAO (air)**

UN/ID no. UN3082  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Hazard Class 9  
Packing Group III  
Special Provisions A97, A158, A197  
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

**IATA**

UN/ID no. UN3082  
Hazard Class 9  
Packing Group III  
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

**IMDG**

UN/ID no. UN3082  
Hazard Class 9  
Packing Group III  
EmS-No. F-A, S-F  
Special Provisions 274, 335  
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

**RID**

UN/ID no. UN3082  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Hazard Class 9  
Packing Group III  
Classification code M6  
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III  
Labels 9

**ADR**

UN/ID no. UN3082  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Hazard Class 9  
Packing Group III  
Classification code M6  
Tunnel restriction code (E)  
Special Provisions 274, 335, 601, 375  
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III  
Labels 9

**ADN**

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard Class	9
Packing Group	III
Classification code	M6
Special Provisions	274, 335, 375, 601
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
Hazard label(s)	9
Limited quantity (LQ)	5 L

**International Inventories**

TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
Titanium dioxide - 13463-67-7	Carcinogen

**U.S. State Right-to-Know Regulations****US State Regulations**

This product does not contain any substances regulated by state right-to-know regulations

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	Health hazards 3	Flammability 1	Instability 0	Physical and chemical properties -
<b>HMS</b>	Health hazards 3 *	Flammability 1	Physical hazards 0	Personal protection X
<i>Chronic Hazard Star Legend      * = Chronic Health Hazard</i>				

Revision Date 02-Mar-2016

Revision Note No information available.

**Disclaimer**

The information provided in this Safety Data Sheet derives from a third party source. Whilst we believe that the information is correct as at the date of its publication, we do not make any representations or warranties regarding the accuracy or completeness of the information nor the quality or specification of any materials, substances or mixtures referred to herein (collectively, "Materials"). The information is being provided solely as a guideline for the safe handling, use, consumption, processing, storage, transportation, disposal and release of the Materials. The information may not be sufficient for such purposes and the user should not place any reliance on the information provided. The information may not be applicable to Materials that are combined with any materials or in any process other than as expressly stated herein. We shall not be liable for any kind of liability including, without limitation, damages, losses or expenses, arising out of or as a result of any reliance on the information contained in this Safety Data Sheet. This Safety Data Sheet remains our exclusive property and should not be reproduced, modified or distributed without our prior written consent.

End of Safety Data Sheet



TYPE OF CONST.				IIB
LOT	1,791 S.F.			
USE	S.F.	S.F./P	OCC LOAD	
OFFICE (B)	304 S.F.	1/100	2P	
WAREHOUSE (S-1)	1,486 S.F.	1/500	2P	
TOTAL			4P	

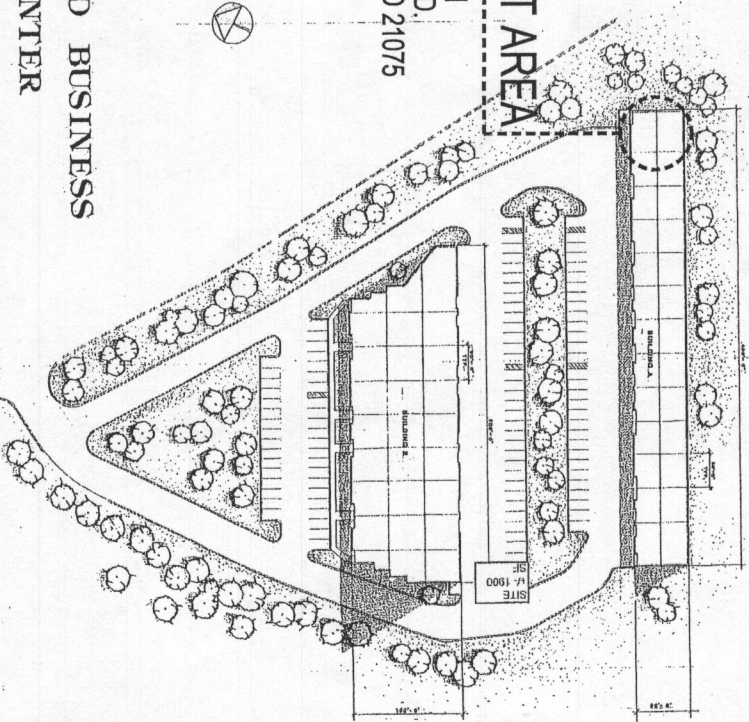
## Applicable Codes:

2015 INTERNATIONAL BUILDING CODE  
2015 INTERNATIONAL ENERGY CONSERVATION CODE  
2012 INTERNATIONAL EXISTING BUILDING CODE  
2015 INTERNATIONAL GREEN CONSTRUCTION CODE  
2015 INTERNATIONAL MECHANICAL CODE  
2012 INTERNATIONAL PROPERTY MAINTENANCE CODE  
2015 INTERNATIONAL PLUMBING CODE  
2015 INTERNATIONAL RESIDENTIAL CODE

RECEIVED  
SEP 18 2017  
LICENSES & PERMITS  
DIVISION

## PROJECT AREA

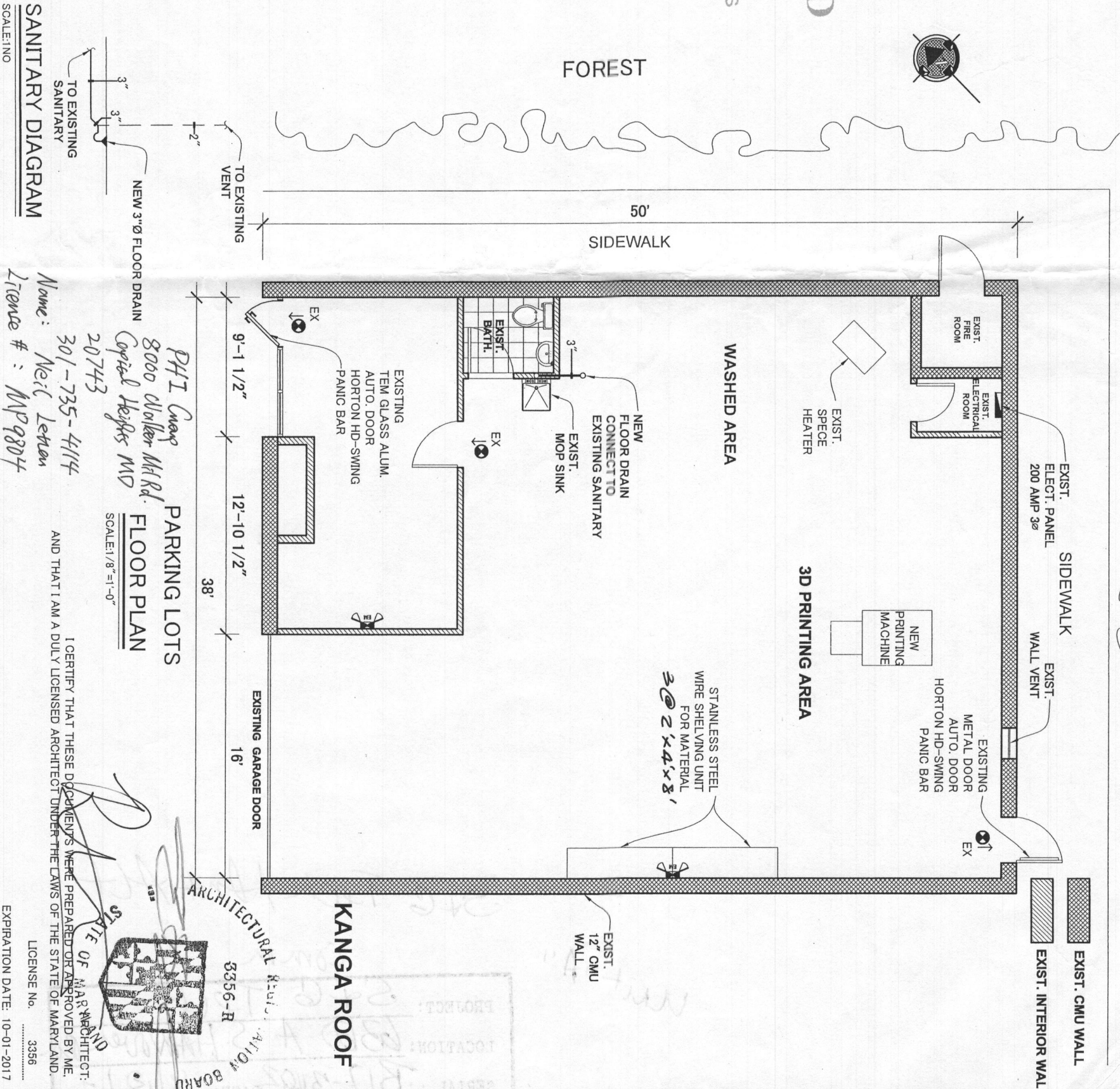
6360 A SOUTH  
HARNOVER RD.  
ELKRIDGE, MD 21075



## VICINITY MAP

## NOTE: EXISTING ELECTRICAL, MECHANICAL AND ARCHITECTURAL NO CHANGE

FOREST



REVISIONS	
0	30/08/17 OWNER APPROVAL


**AEP A**  
Architects Engineers  
A Professional Corporation  
2421 Pennsylvania Avenue, N.W.  
Washington, D.C. 20037-1718  
(202) 822-8320

JOB TITLE: **S&G TECH GROUP, CORP. ( ZURY FABRICATION )**  
6360 A SOUTH HARNOVER RD, ELKRIDGE, MD 21075  
DRAWG. TITLE: **FLOOR PLAN**

AEP A JOB NO. 1712  
DESIGNED BY: AEP A  
DRAWN BY: M.V.  
REVIEWED BY: AEP A  
SHEET NUMBER: 01  
**A-001**  
DRAWING NUMBER  
DATE: 09/08/2017