SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier

Product Form:
Substance Name: FIBERLAY SHIELD VE ORANGE TOOLING GEL COAT
Product Code(s): 059050002008, 059050002010, 059050002013
Synonyms:

1.2 Details of the Supplier of the Safety Data Sheet

Fiberlay Inc.
1468 Northgate Blvd
Sarasota, FL 34234
T 206-782-0660
F 888-782-0662
www.Fiberlay.com

1.3 Emergency Telephone Number

Emergency Number: CHEMTREC: Domestic - 800-424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
GHS Classification and labeling according to JISZ 7252-2009 and JIS Z 7253-2012;(GHS 2011)

Classification

Flammable liquids, Category 3
Acute toxicity, Category 4, Inhalation Skin irritation, Category 2
Eye irritation, Category 2A

Germ cell mutagenicity, Category 2 Carcinogenicity, Category 2
Carcinogenicity, Category 2 Reproductive toxicity, Category 1B
Specific target organ systemic toxicity - single exposure, Category 1, Central nervous system
Specific target organ systemic toxicity - single exposure, Category 3, Respiratory tract irritation
Specific target organ systemic toxicity - repeated exposure, Category 1, Blood system, Liver, Nervous system, respiratory tract/organ
Aspiration hazard, Category 1

SIGNAL WORD: DANGER

Hazard Statements

H226: Flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation.
H319: Causes serious eye irritation. H332: Harmful if inhaled.
H335: May cause respiratory irritation. H341: Suspected of causing genetic defects. H351: Suspected of causing cancer.
H360: May damage fertility or the unborn child.
H370: Causes damage to organs (Central nervous system).
H372: Causes damage to organs (Blood system, Liver, Nervous system, respiratory tract/organ) through prolonged or repeated exposure.
H401: Toxic to aquatic life.

Precautionary Statements

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233: Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge. P260: Do not breathe dust/fume/gas/mist/vapor/spray.
P264: Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311: IF exposed or concerned: Call a POISON CENTER or doctor/ physician.
P308 + P313: IF exposed or concerned: Get medical advice/attention.
P321: Specific treatment (see supplemental first aid instructions on this label).
P331: Do NOT induce vomiting.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P362 + P364: Take off contaminated clothing and wash it before reuse.
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P403 + P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

Disposal:
P501: Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Concentration (%)	CAS Number
Styrene	39 – 43	100-42-5
Vinyl Ester Resin	26 – 36	Mixture
Unsaturated Polyester Resin	17 - 27	Mixture
Silicon Dioxide	1 – 8	067762-90-7

CT 60035 Tinting Orange Pigment	10 – 14	This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CT 30011 Carbazole Violet Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 22001 Canary Yellow Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 23001 Lt Chrome Yellow Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 40000 Oxide Green Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 40001 Phthalo Green Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 50001 Ultra Marine Blue Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 50500 Phthalo Blue Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 51001 Phthalo Blue Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 60001 Violet Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 60002 Magenta Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 62001 Red Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 27001 Orange Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 20004 Yellow Iron Oxide Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 90001 Oxide Red Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.
CP 70001 Black Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA

		Hazard Communications Standard 29 CFR 1910.1200.
CP 10000 White Pigment		This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200.

REMAINING COMPONENTS NOT DETERMINED TO BE HAZARDOUS AND/OR HAZARDOUS COMPONENTS PRESENT AT LESS THAN 1.0% (0.1% FOR CARCINOGENS)

[1] NOTE: This chemical subject to reporting requirements under SARA Title III, Section 313

4. FIRST AID MEASURES

ROUTE OF EXPOSURE

INGESTION:

Moderately Toxic. May cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea. Exposure may cause symptoms similar to those listed under "Inhalation" (see Inhalation section).

SKIN:

Moderately Irritating. Repeated or prolonged skin contact may cause reddening, inflammation or blistering. May cause allergic reactions in some individuals. Contact with heated material may cause thermal burns. Exposure may cause symptoms similar to those listed under "Inhalation" (see Inhalation section).

EYE:

Moderately Irritating. Direct contact may cause temporary corneal lesions. Contact with heated material may cause thermal burns.

INHALATION:

SLIGHTLY TOXIC. May cause respiratory tract irritation. May cause harmful central nervous system effects. Effects may include drowsiness, impaired balance, nausea, vomiting, loss of appetite and general weakness--"Styrene Sickness". May cause blood changes and liver damage. The disagreeable odor and irritation of this material make inhalation of acutely toxic concentrations unlikely.

SPECIAL TOXIC EFFECTS:

Carcinogenic determinations: The International Agency for Research on Cancer (IARC) has classified styrene in Group 2B (possibly carcinogenic to humans). This classification is not based on any significant new evidence that styrene may be carcinogenic, but rather on a revised definition for group 2B and consideration of new data on styrene oxide. A number of lifetime animal studies with styrene including those conducted in the NCI bioassay program have not shown styrene to be carcinogenic.

Pre-existing medical conditions which may be aggravated by exposure include, but are not limited to, chronic respiratory and skin disease and central nervous system disorders.

Emergency First Aid

INGESTION:

DO NOT INDUCE VOMITING BECAUSE OF DANGER OF ASPIRATING LIQUID INTO LUNGS BURNING (IRRITATING) ESOPHAGUS AGAIN.

If spontaneous vomiting monitor for breathing difficulty. Keep affected person warm and at rest. Get immediate medical attention.

SKIN CONTACT:

Wash area of contact thoroughly with soap and water. Remove contaminated clothing immediately. Place contaminated clothing in closed container for storage until laundered or discarded. If clothing is to be

laundered, inform person performing operation of contaminant's hazardous properties. Get medical attention if irritation persists.

EYE CONTACT:
Flush immediately with large amounts of water for 20-30 minutes. Eye lids should be held away from the eyeball to insure thorough rinsing. Get medical attention if irritation persists.

INHALATION:
Remove affected person from source of exposure. If breathing is difficult, give oxygen. Keep affected person warm and at rest. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT oC (oF): 30-35(87-95) FLAMMABILITY
CLASSIFICATION: CLASS 1C AUTOIGNITION
TEMPERATURE, oC (oF): 490 (914)
FLAMMABILITY LIMITS IN AIR (% by volume): LOWER: 1.1 UPPER: 6.1

BASIC FIREFIGHTING PROCEDURES:
Use dry chemical, all purpose or polar AFFF foam or water spray to extinguish fire. Water or foam may cause frothing, with further application leading to boil over. Foam may have limited effectiveness on three dimensional fires. Use water spray to cool fire-exposed containers, structures and to protect personnel. Use water to flush spills away from source of ignition. Do not flush down public sewers.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Fire may produce poisonous or irritating gas, fumes or vapor. Excessive heat may trigger polymerization of confined material. Containers may explode in heat of fire. Styrene vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks, resulting in stoppage of vents. Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus, with full face mask and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
No flares, smoking, flames, sparks & other sources of ignition in hazardous area. Stop leak if you can do it without risk. Use water spray to reduce vapors.

SMALL SPILLS--Take up with sand or other noncombustible absorbent material or other sorbent known to be compatible, then flush area with water.

LARGE SPILLS--Dike far ahead of spill for later disposal. WASTE DISPOSAL

METHOD:
Incinerate in an approved incinerator or dispose of in a chemical dump in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Store in tightly closed containers in cool, dry, isolated, well-ventilated area away from heat, sources of ignition and incompatibles.

"Empty" containers may contain toxic, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld or reuse containers unless adequate precautions are taken against these hazards.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION:

Wear safety glasses or chemical goggles to prevent eye contact. Do not wear contact lenses when working with this substance. Have eye baths readily available where eye contact can occur.

SKIN PROTECTION:
Wear impervious gloves and protective clothing to prevent skin contact. Suggested protective materials are: Polyvinyl alcohol, Polyethylene and Viton. Provide safety showers at any location where skin contact can occur.

RESPIRATORY PROTECTION:
Use NIOSH or MSHA approved equipment when airborne exposure limits are exceeded. NIOSH/MSHA approved breathing equipment may be required for non-routine and emergency use. Ventilation may be used to control or reduce airborne concentrations.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT,oC (oF):	>145 (293)
VAPOR PRESSURE, mm Hg:	<5 @ 20oC (68oF)
VAPOR DENSITY (AIR=1):	3.6 (styrene)
SOLUBILITY IN WATER:	NEGLIGIBLE
SPECIFIC GRAVITY (H2O=1):	1.06 +/- 5% @ 25oC
PERCENT VOLATILE (VOC):	41
EVAPORATION RATE (ETHER=1):	<1
APPEARANCE/ODOR:	ORANGE LIQUID
ODOR FLASH POINT oC (oF):	30-35(87-95)
FLAMMABILITY CLASSIFICATION	CLASS 1C

AUTOIGNITION TEMPERATURE, oC (oF): 490 (914)
FLAMMABILITY LIMITS IN AIR (% by volume): LOWER: 1.1 UPPER: 6.1

BASIC FIREFIGHTING PROCEDURES:
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Fire may produce poisonous or irritating gas, fumes or vapor. Excessive heat may trigger polymerization of confined material. Containers may explode in heat of fire. Styrene vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks, resulting in stoppage of vents. Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus, with full face mask and full protective equipment.

10. STABILITY AND REACTIVITY

STABILITY/INCOMPATIBILITY:
Stable under normal conditions of use. Avoid contact with strong oxidizers.

HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS:
Thermal decomposition products may be hazardous. Reacts vigorously with oxidizing agents. "Empty" containers may contain toxic, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld or reuse containers unless adequate precautions are taken against these hazards.

11. TOXICOLOGICAL INFORMATION

I**NGESTION**:
Moderately Toxic. May cause gastrointestinal disturbances. Symptoms may Include irritation, nausea, vomiting and diarrhea. Exposure may cause symptoms similar to those listed under "Inhalation" (see Inhalation section).

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Styrene

Bioconcentration factor (BCF)	13.5 - 64
Log Pow 3.16	
Toxicity to Aquatic Invertebrates	LC50 (48h) 23 mg/l (Daphnia magna) Freshwater Fish LC50 (96h) 32 mg/l (pimephales promelas

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Hazardous waste. Can be incinerated, when in compliance with local regulations.

Contaminated Packaging: Empty containers should be taken for local recycling, recovery or waste disposal.

US EPA Waste Number: D001 (IGNITABLE): When discarded in its purchased form, this material would be regulated under 40 CFR 261.21 as EPA Hazardous Waste Number D001 based on the characteristic of ignitability.

14. TRANSPORT INFORMATION

DOT
UN-No UN1866
Proper Shipping Name: RESIN SOLUTION
Hazard Class CLASS 3
Packing Group PGIII
NAERG: 127

TDG
UN-No UN1866
Proper Shipping Name RESIN SOLUTION
Hazard Class CLASS 3
Packing Group PGIII
NAERG: 127

IATA
UN-No UN1866
Proper Shipping Name RESIN SOLUTION
Hazard Class CLASS 3
Packing Group PGIII
NAERG: 127

IMDG/IMO
UN-No UN1866
Proper Shipping Name RESIN SOLUTION
Hazard Class CLASS 3
Packing Group PG III EmS No. F-E, S-E

15. REGULATORY INFORMATION

Clean Air Act -Hazardous Air Pollutants (HAP): The following chemical(s) are listed as hazardous air pollutants (HAP) under the U.S. Clean Air Act Section 112(b)(1), (40 CFR 61): Styrene (CAS# 100-42-5) See Section 2 of this SDS for amount.

Clean Water Act - Priority Pollutants (PP): Styrene (100-42-5) is listed under Section 311 as a Hazardous Substance.

Occupational Safety and Health Act (OSHA): This material is classified
as a hazardous chemical under the criteria of the US Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III: Section 304 - CERCLA: Styrene (CAS# 100-42-5): Reportable Quantity = 1,000 lb.

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): This is classified as an IMMEDIATE HEALTH HAZARD, DELAYED HEALTH HAZARD, FLAMMABILITY HAZARD, and REACTIVITY HAZARD under
the US Superfund Amendment and Reauthorization Act (Section 311/312)

SARA Title III: Section 313 Toxic Chemical List (TCL): Styrene (100-42-5)

TSCA Section 8(b) - Inventory Status: All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory.

TSCA Section 12(b) - Export Notification: This material does not contain any components that are subject to the US Toxic Substances Control Act (TSCA)

Section 12(b) Export Notification requirements.

Canadian Inventory Status: All components of this material are listed on the Canadian Domestic Substances List (DSL).

Canadian WHMIS: This material is classified by the Canadian Workplace Hazardous Material Information System as: B2 (flammable liquid) D2A (materials causing other toxic effects, very toxic material)
D2B (materials causing other toxic effects, toxic material) F (dangerously reactive material)

Prop65 WARNING: This product can expose you to chemicals including styrene which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Additional Canadian Regulatory Information: The following chemicals are listed on the WHMIS Ingredient Disclosure List:
Styrene Monomer (CAS# 100-42-5)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

Fiberlay Inc. believes the law requires us to inform you that detectable amounts of any of the listed chemicals might be present in Fiberlay products. Based on a review of the list, Fiberlay products, like all synthetic and naturally occurring chemical substances, may conceivably contain trace contaminants of some of the listed substances. While not necessarily added to our products as ingredients, some of the listed chemicals may be present in the raw materials as received from suppliers over which we have no control.

Preparation Date: 12-31-2018
Prepared by: Kevin Aber
Comments: This Safety Data Sheet was prepared using information provided by Fiberlay Inc.

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Fiberlay Inc. assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.