



SAFETY DATA SHEET

Section 1: Identification

Product Name: TEC585 G-Max™ Graphene Coating
Product Code: TEC585
Product Class: Exterior Finish Coating
Manufacturer/Supplier: ECP Incorporated
11210 Katherine's Crossing, Suite 100
Woodridge, IL 60517
Telephone: 630-754-4200
Emergency Telephone: CHEMTREC 800-424-9300

Date Prepared: June 18, 2021
Date of Review/Update:

Section 2: Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

GHS Hazard Symbols:



GHS Classification: Flammable Liquid Category 3; Toxic to reproduction Category 2; Skin irritation Category 2; Specific target organ toxicity – single exposure Category 3; Aspiration Hazard Category 1; Acute Toxicity inhalation Category 4

Signal Word: Danger

GHS Hazard Statements:

H226; Flammable liquid and vapor.
H361f; Suspected of damaging fertility.
H332 Harmful if inhaled.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.

GHS Precautionary Statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.

Signs and Symptoms of Exposure:

Eye: Irritation including tearing or redness.
Skin: Prolonged skin contact may cause irritation including redness, irritation, itching.
Ingestion: May cause gastrointestinal irritation
Inhalation: None are known
Medical Conditions Aggravated by Exposure: None known.
HMIS Rating: Health- 1 Fire- 3 Reactivity- 0 Personal Protection- C

Section 3: Composition/Information on Ingredients

Chemical Name	CAS Number	% Range	OSHA PEL	ACGHI TLV
Silane Blend	Proprietary	10-40		
Naphtha (petroleum),	64741-65-7	40-75		

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Ingestion: Never give anything by mouth to an unconscious person. If person is conscious then give several glasses of water. Do not induce vomiting. Keep warm and quiet. Seek medical attention.

Inhalation: Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist,

Section 5: Fire-Fighting Measures

General fire hazards: Flammable liquid and vapor. USE WATER WITH CAUTION. Material will float and may ignite on surface of water. Use water spray to keep fire-exposed containers cool.

Fire and Explosive Properties: Flash Point: 44°C / TCC Flammable Limits: LEL / UEL: No Data

Extinguishing Media: Water spray, dry chemical, carbon dioxide, alcohol foam

Special hazards arising from the substance: Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations.

Special Fire Fighting Procedures: Full protective equipment including self contained breathing apparatus for confined areas. Water may be ineffective in fighting the fire. Use water spray to keep fire exposed containers cool.

Section 6: Accidental Release Measures

Steps to be taken if Material is Spilled or Leaked: Eliminate the sources of ignition. Absorb spills with vermiculite or other inert material, then place in a container for chemical waste. Larger spills use water spray to disperse vapors and dilute spill to a non-flammable mixture. Prevent any runoff from entering any drains, sewers or streams. Dike for later disposal.

Notification procedures: in the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Section 7: Handling and Storage

Precautions to be taken in Handling and Storage:

Avoid breathing mist or vapors. Avoid contact with eyes and prolonged or repeated contact with skin. Use only with adequate ventilation. Wash hands thoroughly after handling. Keep container tightly closed and in a well-ventilated place. Affix proper warning labels on containers in accordance with 29CFR 1010.1200.

Section 8: Exposure Controls and Personal Protection

Ventilation: Use only with adequate ventilation. Avoid breathing vapor or mist. Local exhaust preferred.

Respirator Protection: Properly fitted NIOSH/MSHA approved respirator for ingredients found in SECTION 3 if TLV is exceeded.

Skin Protection: Gloves rated for protection against ingredients in SECTION 3.

Eye Protection: Safety glasses with side shields or chemical goggles.

Section 9: Physical and Chemical Properties

Boiling Point: 155°C

Vapor Density: 5 (air=1)

Specific Gravity: 1.01 ± 0.05

Appearance/Odor: Black Liquid, mild hydrocarbon odor

Vapor Pressure (mmHg @ 68°F): Unknown

Solubility in Water: Complete

Melting Point: Not Applicable

pH: Not Applicable

Section 10: Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Various hydrocarbons of incomplete combustion.

Materials to Avoid: Strong oxidizers

Conditions to Avoid: Open flames, sources of ignition.

Section 11: Toxicology Information

IARC, NTP, OSHA Carcinogen: None

Information on likely routes of exposure:

Inhalation: may cause drowsiness or dizziness

Ingestion: none known

Skin contact: prolonged or repeated skin contact may cause drying, cracking, or irritation

Eye contact: causes serious eye irritation

Information on toxicological effects:

Acute Toxicity

Oral product: oral LD-50: rat; 6750 mg/kg

Dermal product: dermal LD-50: rat; >20 ml/kg

Inhalation product: LC50: rat; 8h: 50.6 mg/l

Repeated dose toxicity product: noael: rat, oral study, 90 days: 90 mg/kg

Skin corrosion/irritation product: guinea pig, 4h: slight

Respiratory or skin sensitization product: skin sensitization: guinea pig: non-sensitizing

Section 12: Ecological Information

All work practices must be aimed at eliminating environmental contamination.

Effects of material on plants and animals: This product may be harmful or fatal to plants and animal life if released into the environment.

Effect of material on aquatic life: The most sensitive known aquatic group to any component of this product is: Fish: LC-50 (golden orfe, 48h): 265-360 mg/l

Keep out of sewers and natural water supplies. This material is a mobile liquid.

Degradability: 76% (20 days, ready biodegradability: closed bottle test.) Readily biodegradable. This product does not accumulate or bio magnify in the environment.

Section 13: Disposal Considerations

Waste Disposal: Dispose of in accordance with federal, state, and local regulations.

Section 14: Transport Information

D.O.T. REQUIREMENTS (49CFR 172.101):

Shipping Description, UN1866, Resin Solution, 3 II

Section 15: Regulatory Information

RQ (REPORTABLE QUANTITY) 49CFR 172.101:

None

TSCA (Toxic Substances Control Act) Status:

The intentional ingredients of this product are listed.

CERCLA RQ - 40CFR 302.4:

None

SARA 302 COMPONENTS - 40CFR 355 Appendix A:

Immediate (acute) health hazard fire hazard

SECTION 311/312 HAZARD CLASS - 40CFR 370.2

Immediate (X)

Reactive ()

Delayed (X)

Sudden Release of Pressure ()

Fire (X)

SARA 313 COMPONENTS - 40CFR 372.65:

None

WORKPLACE HAZARDOUS INFORMATION SYSTEM (WHMIS)

<u>Ingredient</u>	<u>Max. % By Wt.</u>	<u>LD50</u>	<u>LC50</u>
NAPTHA (petroleum) hydrotreated heavy	75-80		
Distillates (petroleum) hydrotreated light	5-10		
Pentaoxapentadecane	5		
Amyl Acetate	5-8		

CALIFORNIA PROPOSITION 65: None

Section 16: Other Information

Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.