

Safety Data Sheet

Date revised: 04/26/2021 This form is subject to changes

1. IDENTIFICATION OF SUBSTANCE:

Product Name: G6E-HTNS Part A

Product Number(s): G6E-HTNS

Manufacturer/Supplier:

Graphene Supermarket

Graphene Laboratories, Inc.

760 Koehler Ave.,

Ronkonkoma, NY11779

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixtureGHS Ratings:Eye corrosiveSkin Corrosion/IrritationSkin SensitizationSpecific Target Organ Toxicity (Single Exposure)

Category 2A Category 2 Category 1 Category 3

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Pictogram



Signal word Warning

Hazard statement(s	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.



Precautionary statement(s) P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children P103 Read label before use

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and

understood

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking	P210
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P233 Keep the container tightly closed.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water/shower.

P304 + P340 + P312

IF INHALED: Remove person to fresh air and keep breathing comfortable. Call a POISON CENTER/doctor if you feel unwell.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P233 Store in a well-ventilated place. Keep the container tightly closed.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1

Ingredient Name	% by Weight	CAS Number
Modified epoxy resins	10-30	propriety
Silver	30-60	7440-22-4
Mixture of nano-carbon products	1-3	propriety
Graphene Flakes	0.01 - 1	7782-42-5

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

4. FIRST AID MEASURES

• After inhalation

Supply fresh air. Seek medical advice if irritation persists.

• After skin contact

Immediately wash with warm water and mild soap and rinse thoroughly. Mechanical irritation of skin is possible.



• After eye contact

Rinse your eyes for several minutes under running water. Then consult a doctor.

• After ingestion

Get immediate medical attention. Rinse mouth with water but do not swallow the water. Do not induce vomiting unless directed by medical personnel.

by ingestion.

• Indication of any immediate medical attention and special treatment needed No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media None known Specific hazards arising from the chemical 5.2 In a fire or if heated, a pressure increase will occur, and the container may burst. Thermal decomposition may liberate carbon oxides and other toxic vapors Advice for firefighters 5.3 Wear appropriate protective equipment and self-contained breathing apparatus, gloves, safety goggles 5.4 Further information No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

For personal protection see section 8.

6.2 Environmental precautions

Do not let products enter drains, sewers. Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up

Absorb it in vermiculite, dry sand or earth and place it into a container. Flush with plenty of soap water to clean the spillage area. Do not contaminate water sources.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid spilling, skin and eye contact. Keep away from the heat and open flame. Do not eat, drink or smoke when using the product.

7.2 Conditions for safe storage, including any incompatibilities

Keep the container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters



Appropriate engineering controls: Use process enclosures and/or exhaust ventilation to keep airborne dust concentrations below the applicable occupational exposure limit.

8.2 Exposure controls

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed. Keep away from food and beverages.

Avoid contact with the eyes. Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Wear impervious clothing to minimize skin contact. Use of a barrier cream may help to prevent skin drying. Wash hands and other exposed skin with mild soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- •Form: Paste
- Color: Dark Silver gray
- Odor: Light Odor
- Change in condition: No data available
- Melting point/Melting range: No data available
- Boiling point/Boiling range: No data available
- Sublimation temperature / start: No data available
- Flash point: No data available
- Ignition temperature: No data available
- Decomposition temperature: No data available
- Danger of explosion: Product does not present an explosion hazard.
- Lower Explosion limits: No data available
- Viscosity: No data available
- Vapor pressure: No data available
- Density: No data available
- Solubility in / Miscibility with Water: negligible, insoluble

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
Stable under normal conditions.
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Strong oxidizer
10.5 Incompatible materials
Strong oxidizing agents, Strong acids, Strong alkalis
10.6 Hazardous decomposition products



Under normal conditions of use, hazardous decomposition products should not be produced. Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Ingredient name	Results	Species	Dose	Exposure
Silver Flakes	TDLo Oral	Rat	330 mg/kg	
Modified Epoxy Resin	LD 50 Oral LD50 Dermal Skin Erythema/E Eyes 405 Eyes – redness of	Rat Rat Rabbit Rabbit	11,400 mg/kg 2,000 mg/kg 1.5 – 2 (score) 0	
	the conjunctiva Skin severe/ moderate irritant	Rabbit Rabbit	0.7	24 hours
Nano carbon	LD 50 Oral LC 50 Inhalation	Rat Rat	2,000 mg/kg 2,000 mg/kg	4 hours
Graphene Flakes	LD 50 Oral LC 50 Inhalation	Rat Rat	2,000 mg/kg 2,000 mg/kg	4 hours

11.1 Information on toxicological effects

 Additional toxicological information: Reproductive toxicity No data available
 No data available
 Specific target organ toxicity - single exposure
 No data available
 Specific target organ toxicity - repeated exposure
 No data available
 Aspiration hazard
 No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Toxic to aquatic organisms, may cause long-term adverse effects in aqueous environments.
12.2 Persistence and degradability
No data available.
12.3 Bioaccumulative potential
No data available.
12.4 Mobility in soil
Product has poor water solubility.



12.5 Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methodsProductOffer surplus and non-recyclable solutions to a licensed disposal companyContaminated packagingPackaging should be completely emptied of contents and disposed of in a manner specified by the recycler/regional disposal contractor.

14. TRANSPORT INFORMATION

UN-Number	
DOT, ADR, ADN, IMDG, IATA	- Not regulated for transport
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	- Not regulated for transport
Transport hazard class DOT, ADR, ADN, IMDG, IATA	- Not regulated for transport
Packing group DOT, ADR, IMDG, IATA	- Not regulated for transport
Special precautions for user	- Not applicable
Transport in bulk according to AnnexII of MARPOL73/78 and the IBC Code	- Not applicable

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components (Acute Health Hazard, Chronic Health Hazard)

None of the materials are listed

TSCA



All ingredients are listed

Proposition 65

Chemicals known to cause cancer Chemicals known to cause reproductive toxicity Chemicals known to cause developmental toxicity

Pennsylvania Right To Know Components None of the ingredients are listed

New Jersey Right To Know Components None of the ingredients are listed

Massachusetts Right To Know Components None of the ingredients are listed

Rhode Island Right To Know Components None of the ingredients are listed

Minnesota Right To Know Components None of the ingredients are listed

Florida Right To Know Components None of the ingredients are listed

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Carcinogenic categories

EPA	- None of the ingredients are listed
TLV	- None of the ingredients are listed
NIOSH-Ca	- None of the ingredients are listed

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3. Modified Resin HMIS Rating Health hazard: 2 Flammability: 1 Physical Hazard 0

Silver Flakes: HMIS Rating Health hazard: 1 Flammability: 0 Physical Hazard 0

- None of the ingredients are listed
- None of the ingredients are listed
- None of the ingredients are listed



Graphene Flakes: Health hazard: 2 Flammability: 0 Physical Hazard: 0

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.



Safety Data Sheet

Date revised: 04/26/2021 This form is subject to changes

1. IDENTIFICATION OF SUBSTANCE:

Product Name: G6E-HTNS Part B

Product Number(s): G6E-HTNS Part B

Manufacturer/Supplier:

Graphene Supermarket

Graphene Laboratories, Inc.

760 Koehler Ave.,

Ronkonkoma, NY11779

info@graphenelab.com Phone: (516) 382-8649 Fax: (781) 287-1248

Category 4

Category 4 Category 1

Category 2A

Category 2 Category 1

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
GHS Ratings:
Acute toxicity (Oral)
Acute toxicity (Dermal)
Eye Damage
Eye Corrosive
Skin Corrosion/Irritation
Respiratory Sens.

Pictogram



Signal word Warning



Hazard statement(ýs)		
H314	Causes severe skin burns and eye damage.		
H318	Causes serious eye damage.		
H335	May cause respiratory irritation.		
H317	May cause an allergic skin reaction.		
H332	Harmful if inhaled		
Precautionary state	ement(s)		
P101 If medical a	dvice is needed, have product container or label at hand		
P102 Keep out of	reach of children		
P103 Read label b	efore use		
P201 Obtain speci	al instructions before use		
P202 Do not hand	lle until all safety precautions have been read and		
understood			
P210 Ke	ep away from heat/sparks/open flames/hot surfaces. No smoking.		
P233 Ke	ep container tightly closed.		
P261 Av	oid breathing dust/ fume/ gas/ mist/ vapors/ spray.		
P271 Us	e only outdoors or in a well-ventilated area.		
P273 Av	oid release to the environment.		
P280 We	ear protective gloves/ eye protection/ face protection.		
P303 + P361 + P353			
IF ON SKIN (or l	hair): Take off immediately all contaminated clothing. Rinse skin with soap and		
water/shower.			
P304 + P340 + P3	312		
IF INHALED: Re	emove person to fresh air and keep breathing comfortable. Call a POISON		
CENTER/doctor	if you feel unwell.		

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P233 Store in a well-ventilated place. Keep the container tightly closed.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3	1

Ingredient Name	% by Weight	CAS Number
Acid Anhydride Complex	10-30	25134-21-8
Glycerol	1-5	56-81-5
Anhydride	1-5	552-30-7
Imidazole	<0.1	228-32-4
Silver Flakes	50 - 70	7440-22-4

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

4. FIRST AID MEASURES



After inhalation

Supply fresh air. Seek medical advice if irritation persists.

• After skin contact

Immediately wash with war dg45RTx9HJ

m water and mild soap and rinse thoroughly. Mechanical irritation of skin is possible.

• After eye contact

Rinse the eye for several minutes under running water. Then consult a doctor.

• After ingestion

Get immediate medical attention. Rinse the mouth with water but do not swallow the water. Do not induce vomiting unless directed by medical personnel.

• Indication of any immediate medical attention and special treatment needed No data available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use high-volume water spray

Unsuitable extinguishing media

None known

5.2 Specific hazards arising from the chemical

No data available

5.3 Advice for firefighters

Wear appropriate protective equipment and self-contained breathing apparatus, gloves, safety goggles. Collect contaminated fire extinguishing water separately.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing. Ensure adequate ventilation.

For personal protection see section 8.

6.2 Environmental precautions

Do not let products enter drains, sewers. Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up

Neutralize with acid. Absorb it in vermiculite, dry sand or earth and place it into a container. Flush with plenty of soap water to clean the spillage area.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid spilling, skin and eye contact. Keep away from the heat and open flame. Do not eat, drink or smoke when using the product. Do not breathe vapor/dust

7.2 Conditions for safe storage, including any incompatibilities

Keep the container tightly closed in a dry and well-ventilated place.



7.3 Keep away from strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Appropriate engineering controls: Use process enclosures and/or exhaust ventilation.

8.2 Exposure controls

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed. Keep away from food and beverages.

Avoid contact with the eyes. Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Wear impervious clothing to minimize skin contact. Use of a barrier cream may help to prevent skin drying. Wash hands and other exposed skin with mild soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties
- •Form: Paste
- Color: Silver
- Odor: Low odor
- Change in condition: No data available
- Melting point/Melting range: No data available
- Boiling point/Boiling range: No data available
- Sublimation temperature / start: No data available
- Flash point: No data available
- Ignition temperature: No data available
- Decomposition temperature: No data available
- Danger of explosion: Product does not present an explosion hazard.
- Lower Explosion limits: No data available
- pH: No data available
- Vapor pressure: No data available
- Density: No data available
- Solubility in / Miscibility with Water: non-soluble

9.2 Other safety information No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
Stable under normal conditions.
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available



10.4 Conditions to avoid
Strong oxidizer
10.5 Incompatible materials
Strong oxidizing agents, Strong acids, Strong alkalis
10.6 Hazardous decomposition products
Under normal conditions of use, hazardous decomposition products should not be produced. Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Ingredient name	Results	Species	Dose
Acid Anhydride	LD 50 Oral	Rat	958 mg/kg
25134-21-8	LD50 Dermal	Rat	4290 mg/kg
	Eyes 405	Rabbit	Strong irritant
	LC10 Inhalation	Rat	750 mg/kg
	Skin severe/moderate irritant	Rabbit	mild
Anhydride	LD 50 Oral	Rat	5600 mg/kg
552-30-7			
Imidazole	LD50 Oral	Rat	970 mg/kg
288-32-4			
Silver Flakes	TDLo Oral	Rat	330 mg/kg
			0.0

11.1 Information on toxicological effects

Carcinogenic categories

IARC - None of the materials are listed

NTP - None of the materials are listed

OSHA-Ca - None of the materials are listed

12. ECOLOGICAL INFORMATION

12.1 AquaticToxicity

288-32-4 Imidazole

EC50/48h	341.5 mg/l (Daphnia magna)
EC50/72h	133 mg/l (Scenedesmus subspicatus)
LC50/48h	280 mg/l (Golden orfe)

12.2 Persistence and degradability No data available.

12.3 Bioaccumulative potential



No data available. 12.4 Mobility in soil No data available. 12.5 Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methodsProductOffer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging Packaging should be completely emptied of contents and (

Packaging should be completely emptied of contents and disposed of in a manner specified by the recycler/regional disposal contractor.

14. TRANSPORT INFORMATION

UN-Number	
DOT, ADR, ADN, IMDG, IATA	- Not regulated for transport
UN proper shipping name	
DOT, ADR, ADN, IMDG, IATA	- Not regulated for transport
Transport hazard class	
DOT, ADR, ADN, IMDG, IATA	- Not regulated for transport
Packing group	
DOT, ADR, IMDG, IATA	- Not regulated for transport
Special precautions for user	- Not applicable
Transport in bulk according to	- Not applicable
AnnexII of MARPOL73/78	
and the IBC Code	

15. REGULATORY INFORMATION

Pennsylvania Right to Know Components Glycerol 56-81-5 Anhydride 552-30-7 Acid Anhydride Complex 25134-21-8 Imidazole 288-32-4

Massachusetts Right to Know Components Glycerol 56-81-5



Anhydride 552-30-7

New Jersey Right to Know Components Glycerol 56-81-5 Anhydride 552-30-7 Acid Anhydride Complex 25134-21-8 Imidazole 288-32-4

Road Island Right to Know Components Glycerol 56-81-5 Anhydride 552-30-7 Acid Anhydride Complex 25134-21-8 Imidazole 288-32-4

California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components

Acute Health Hazard, Chronic Health Hazard: Glycerol 56-81-5 Anhydride 552-30-7 Acid Anhydride Complex 25134-21-8 Imidazole 288-32-4

Carcinogenic categories

EPA		e	- None of the ingredients are listed
TLV			- None of the ingredients are listed
NIOSH-	Ca		- None of the ingredients are listed

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3. Full text of H-Statements referred to under sections 2 and 3.

Acid Anhydride Complex HMIS Rating Health hazard: 2 Flammability: 0 Physical Hazard 0



Anhydride HMIS Rating Health hazard: 2 Flammability: 0 Physical Hazard 0

Silver Flakes: HMIS Rating Health hazard: 1 Chronic Health Hazard: Flammability: 0 Physical Hazard 0

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgments of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.