



Graphene-Acrylic Tire Shine

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
US GHS SDS

Date of Issue: 07/12/2021

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Graphene-Acrylic Tire Shine

Product Code: 53733, 53740

1.2. Intended Use of the Product

Use of the Substance/Mixture: Rubber/Vinyl Protectant - Non-Aerosol

1.3. Name, Address, and Telephone of the Responsible Party

Manufacturer

Turtle Wax, Inc.

2250 W. Pinehurst Blvd., Suite 150

Addison, IL 60101-6103

Phone Number: 1(630)455-3700

Toll-Free Number: 1(800)887-8539

1.4. Emergency Telephone Number

Emergency Number : CHEMTREC
Within USA and Canada: 1-800-424-9300 or +1-703-527-3887 (collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Eye Irrit. 2A H319

Full text of hazard classes and H-statements : see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



GHS07

Signal Word (GHS-US) :

Warning

Hazard Statements (GHS-US) :

H319 – Causes serious eye irritation.

Precautionary Statements (GHS-US) :

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, and eye protection.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see section 4 on this SDS).
P337+P313 - If eye irritation persists: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

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3.2. Mixture

Name	Synonyms	Product Identifier	%	GHS US classification
Alcohols, C10-16, ethoxylated	C10-16 Alcohol Ethoxylate / PEG alkyl(C10-16) ether / C10-16 Pareth-1 / Ethoxylated alcohols (C10-16) / Ethoxylated alcohols(C10-16)	(CAS-No.) 68002-97-1	<2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400
Dimethoxane	Acetate, 2,6-dimethyl-1,3-dioxan-4-yl / Acetic acid, 2,6-dimethyl-m-dioxan-4-yl ester / Acetic acid, ester with 2,6-dimethyl-m-dioxan-4-ol / 6-Acetoxy-2,4-dimethyl-m-dioxane	(CAS-No.) 828-00-2	<1	Acute Tox. 4 (Oral), H302 Skin Sens. 1A, H317
Octamethylcyclotetrasiloxane	Cyclotetrasiloxane / Cyclotetrasiloxane, octamethyl- / Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl- / D4	(CAS-No.) 556-67-2	< 0.05	Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 4, H413
Propanol, 1(or 2)-(2-methoxymethylethoxy)-	Dipropylene Glycol Methyl Ether / Dipropylene glycol monomethyl ether / (2-Methoxymethylethoxy)propanol / Propanol, (2-methoxymethylethoxy)-	(CAS-No.) 34590-94-8	<0.03	Flam. Liq. 4, H227
Sodium hydroxide	Caustic soda / Sodium hydroxide (Na(OH)) / LYE	(CAS-No.) 1310-73-2	< 0.01	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402
Propanedioic acid, diethyl ester	Diethyl malonate / Diethyl propanedioate / Malonic acid, diethyl ester	(CAS-No.) 105-53-3	< 0.01	Flam. Liq. 4, H227 Eye Irrit. 2A, H319 Aquatic Acute 3, H402
Carbon black	Carbon Black Dispersion / C.I. 77266 / C.I. Pigment Black 6 / C.I. Pigment Black 7 / Carbon blacks / Lampblack	(CAS-No.) 1333-86-4	< 0.01	Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 2, H351 Comb. Dust
Vinyl acetate	Acetic acid, ethenyl ester / Acetic acid, vinyl ester / 1-Acetoxyethylene / Ethanoic acid, ethenyl ester	(CAS-No.) 108-05-4	< 0.007	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
1,2-Propanediol	Propylene Glycol / 1,2-Propylene glycol / 1,2-Dihydroxypropane / Propane-1,2-diol	(CAS-No.) 57-55-6	< 0.005	Not classified
Crotonaldehyde	But-2-enal / 2-Butenal / 2-Butenal, stabilized / Crotonaldehyde, stabilized / .beta.-Methylacrolein	(CAS-No.) 4170-30-3	< 0.003	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Muta. 2, H341 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Acetic acid	Acetic acid, glacial / Ethanoic acid / Ethylic acid / Vinegar acid	(CAS-No.) 64-19-7	< 0.001	Flam. Liq. 3, H226 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
D-Limonene	Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- / Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)- / (R)-p-Mentha-1,8-diene / p-Mentha-1,8-diene, (R)-(+)-	(CAS-No.) 5989-27-5	≤ 0.001	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Propylene glycol monomethyl ether acetate	Methoxyisopropyl Acetate / Acetate, 1-methoxy-2-propyl / Acetic acid, 2-methoxy-1-methylethyl ester / 2-Methoxy-1-methylethyl acetate	(CAS-No.) 108-65-6	<0.001	Flam. Liq. 3, H226 STOT SE 3, H336
Cyclohexane	Benzene, hexahydro- / CYCLOHEXANE / Hexahydrobenzene	(CAS-No.) 110-82-7	<0.001	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Graphite	C.I. Pigment Black 10 / C.I. 77265 / graphite	(CAS-No.) 7782-42-5	< 0.0004	Comb. Dust
Ethyl acetate	Acetic acid, ethyl ester / Ethyl ethanoate / ETHYL ACETATE	(CAS-No.) 141-78-6	≤ 0.0001	Flam. Liq. 2, H225 Eye Irrit. 2B, H320 STOT SE 3, H336
Acrylic acid	Acroleic acid / Propenoic acid / 2-Propenoic acid / Acrylic acid, stabilized	(CAS-No.) 79-10-7	≤ 0.0001	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists.

First-aid Measures After Eye Contact: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for at least 15 minutes. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: None expected under normal conditions of use.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: None expected under normal conditions of use.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

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4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Hydrocarbons. Oxides of silicone. Acrid smoke and irritating fumes. Toxic fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing (vapor, mist, spray). Do not get in eyes, on skin, or on clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Avoid breathing vapors, mist, spray. Avoid prolonged contact with eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Rubber/Vinyl Protectant - Non-Aerosol

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Cyclohexane (110-82-7)		
USA ACGIH	ACGIH OEL TWA [ppm]	100 ppm
USA NIOSH	NIOSH REL (TWA)	1050 mg/m ³

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USA NIOSH	NIOSH REL TWA [ppm]	300 ppm
USA IDLH	IDLH [ppm]	1300 ppm (10% LEL)
USA OSHA	OSHA PEL (TWA) [1]	1050 mg/m ³
USA OSHA	OSHA PEL (TWA) [2]	300 ppm
Ethyl acetate (141-78-6)		
USA ACGIH	ACGIH OEL TWA [ppm]	400 ppm
USA NIOSH	NIOSH REL (TWA)	1400 mg/m ³
USA NIOSH	NIOSH REL TWA [ppm]	400 ppm
USA IDLH	IDLH [ppm]	2000 ppm (10% LEL)
USA OSHA	OSHA PEL (TWA) [1]	1400 mg/m ³
USA OSHA	OSHA PEL (TWA) [2]	400 ppm
Acrylic acid (79-10-7)		
USA ACGIH	ACGIH OEL TWA [ppm]	2 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route
USA NIOSH	NIOSH REL (TWA)	6 mg/m ³
USA NIOSH	NIOSH REL TWA [ppm]	2 ppm
Acetic acid (64-19-7)		
USA ACGIH	ACGIH OEL TWA [ppm]	10 ppm
USA ACGIH	ACGIH OEL STEL [ppm]	15 ppm
USA NIOSH	NIOSH REL (TWA)	25 mg/m ³
USA NIOSH	NIOSH REL TWA [ppm]	10 ppm
USA NIOSH	NIOSH REL (STEL)	37 mg/m ³
USA NIOSH	NIOSH REL STEL [ppm]	15 ppm
USA IDLH	IDLH [ppm]	50 ppm
USA OSHA	OSHA PEL (TWA) [1]	25 mg/m ³
USA OSHA	OSHA PEL (TWA) [2]	10 ppm
Vinyl acetate (108-05-4)		
USA ACGIH	ACGIH OEL TWA [ppm]	10 ppm
USA ACGIH	ACGIH OEL STEL [ppm]	15 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA NIOSH	NIOSH REL (Ceiling)	15 mg/m ³
USA NIOSH	NIOSH REL C [ppm]	4 ppm
Crotonaldehyde (4170-30-3)		
USA ACGIH	ACGIH OEL Ceiling [ppm]	0.3 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route
USA NIOSH	NIOSH REL (TWA)	6 mg/m ³
USA NIOSH	NIOSH REL TWA [ppm]	2 ppm
USA IDLH	IDLH [ppm]	50 ppm
USA OSHA	OSHA PEL (TWA) [1]	6 mg/m ³
USA OSHA	OSHA PEL (TWA) [2]	2 ppm
Octamethylcyclotetrasiloxane (556-67-2)		
USA AIHA	WEEL TWA [ppm]	10 ppm
D-Limonene (5989-27-5)		
USA AIHA	WEEL TWA [ppm]	30 ppm
Propylene glycol monomethyl ether acetate (108-65-6)		
USA AIHA	WEEL TWA [ppm]	50 ppm
Carbon black (1333-86-4)		
USA ACGIH	ACGIH OEL TWA	3 mg/m ³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA NIOSH	NIOSH REL (TWA)	3.5 mg/m ³

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		0.1 mg/m ³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)
USA IDLH	IDLH	1750 mg/m ³
USA OSHA	OSHA PEL (TWA) [1]	3.5 mg/m ³
1,2-Propanediol (57-55-6)		
USA AIHA	WEEL TWA	10 mg/m ³
Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)		
USA ACGIH	ACGIH OEL TWA [ppm]	100 ppm
USA ACGIH	ACGIH OEL STEL [ppm]	150 ppm
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route
USA NIOSH	NIOSH REL (TWA)	600 mg/m ³
USA NIOSH	NIOSH REL TWA [ppm]	100 ppm
USA NIOSH	NIOSH REL (STEL)	900 mg/m ³
USA NIOSH	NIOSH REL STEL [ppm]	150 ppm
USA IDLH	IDLH [ppm]	600 ppm
USA OSHA	OSHA PEL (TWA) [1]	600 mg/m ³
USA OSHA	OSHA PEL (TWA) [2]	100 ppm
USA OSHA	Limit value category (OSHA)	prevent or reduce skin absorption
Sodium hydroxide (1310-73-2)		
USA ACGIH	ACGIH OEL Ceiling	2 mg/m ³
USA NIOSH	NIOSH REL (Ceiling)	2 mg/m ³
USA IDLH	IDLH	10 mg/m ³
USA OSHA	OSHA PEL (TWA) [1]	2 mg/m ³
Graphite (7782-42-5)		
USA ACGIH	ACGIH OEL TWA	2 mg/m ³ (all forms except graphite fibers-respirable particulate matter)
USA NIOSH	NIOSH REL (TWA)	2.5 mg/m ³ (natural-respirable dust)
USA IDLH	IDLH	1250 mg/m ³ (Graphite (natural))
USA OSHA	OSHA PEL (TWA) [1]	15 mg/m ³ (synthetic-total dust) 5 mg/m ³ (synthetic-respirable fraction)
USA OSHA	OSHA PEL (TWA) [2]	15 mppcf (natural) (See 29 CFR 1910.1000 TABLE Z-3)

8.2. Exposure Controls

Appropriate Engineering Controls

: Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles.



Materials for Protective Clothing

: Chemically resistant materials and fabrics.

Hand Protection

: Wear protective gloves.

Eye and Face Protection

: Chemical safety goggles.

Skin and Body Protection

: Wear suitable protective clothing.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State

: Liquid

Appearance

: Milky white thin liquid

Odor

: Fruity

Odor Threshold

: No data available

pH

: 4.99

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Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: > 93 °C (Closed Cup) (199.4 °F)
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Specific Gravity	: 0.962
Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
Viscosity, Dynamic	: 1300 cP
9.2. Other Information	
VOC content (California)	: 0.1 %
% NVM by Weight	: 21 %

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
- 10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. Hazardous Decomposition Products:** Thermal decomposition may produce: Hydrocarbons. Carbon oxides (CO, CO₂). Acrid smoke and irritating fumes. Silicone compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

Cyclohexane (110-82-7)	
LD50 Oral Rat	12705 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 9500 ppm/4h
Ethyl acetate (141-78-6)	
LD50 Oral Rat	5620 mg/kg
LD50 Dermal Rabbit	> 18000 mg/kg
LC50 Inhalation Rat	> 7348 mg/l/4h (calculated off of 6hr test results)
LC50 Inhalation Rat	4000 ppm/4h
Acrylic acid (79-10-7)	
LD50 Oral Rat	1337 mg/kg
LD50 Dermal Rabbit	640 mg/kg
LC50 Inhalation Rat	11.1 mg/l (Exposure time: 1 h)
LC50 Inhalation Rat	3.6 mg/l/4h
LC50 Inhalation Rat	2.75 mg/l/4h
Dimethoxane (828-00-2)	
LD50 Oral Rat	1930 mg/kg
Acetic acid (64-19-7)	
LD50 Oral Rat	3310 mg/kg
Vinyl acetate (108-05-4)	

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LD50 Oral Rat	2900 mg/kg
LD50 Dermal Rabbit	2335 mg/kg
LC50 Inhalation Rat	11.4 mg/l/4h
LC50 Inhalation Rat	3680 ppm/4h
ATE (Dust/Mist)	1.50 mg/l/4h
Crotonaldehyde (4170-30-3)	
LD50 Oral Rat	220 mg/kg
LD50 Dermal Rabbit	128 mg/kg
LC50 Inhalation Rat	88 ppm/4h
ATE (Dust/Mist)	0.05 mg/l/4h
Alcohols, C10-16, ethoxylated (68002-97-1)	
ATE (Oral)	500.00 mg/kg body weight
Octamethylcyclotetrasiloxane (556-67-2)	
LD50 Oral Rat	> 4800 mg/kg (No mortality)
LD50 Dermal Rat	> 2375 mg/kg
LD50 Dermal Rabbit	> 2.5 ml/kg (No mortality)
LC50 Inhalation Rat	36 g/m ³ (Exposure time: 4 h)
Propanedioic acid, diethyl ester (105-53-3)	
LD50 Oral Rat	14900 µl/kg
LD50 Dermal Rabbit	> 16960 mg/kg
ATE (Oral)	15,794.00 mg/kg body weight
D-Limonene (5989-27-5)	
LD50 Oral Rat	4400 mg/kg
LD50 Dermal Rabbit	> 5 g/kg
Propylene glycol monomethyl ether acetate (108-65-6)	
LD50 Oral Rat	8532 mg/kg
LD50 Dermal Rabbit	> 5 g/kg
LC50 Inhalation Rat	16000 mg/m ³ (Exposure time: 6 h)
Carbon black (1333-86-4)	
LD50 Oral Rat	> 8000 mg/kg
LC50 Inhalation Rat	> 4.6 mg/m ³ (Exposure time: 4 h)
ATE (Dust/Mist)	1.50 mg/l/4h
1,2-Propanediol (57-55-6)	
LD50 Oral Rat	20 g/kg
LD50 Dermal Rabbit	20800 mg/kg
Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)	
LD50 Oral Rat	> 5000 mg/kg (Species: Sprague-Dawley)
LD50 Dermal Rabbit	9500 mg/kg
Sodium hydroxide (1310-73-2)	
LD50 Oral Rat	325 mg/kg
Graphite (7782-42-5)	
LD50 Oral Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 2000 mg/m ³ (Exposure time: 4 h)
Skin Corrosion/Irritation: Not classified. (Not irritating via OECD Guidelines for the Testing of Chemicals, Test #404.) pH: 4.99	
Serious Eye Damage/Irritation: Causes serious eye irritation. pH: 4.99	
Respiratory or Skin Sensitization: Not classified	
Germ Cell Mutagenicity: Not classified	
Carcinogenicity: Not classified	
Acrylic acid (79-10-7)	
IARC group	3

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Dimethoxane (828-00-2)	
IARC group	3
Vinyl acetate (108-05-4)	
IARC group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Crotonaldehyde (4170-30-3)	
IARC group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
D-Limonene (5989-27-5)	
IARC group	3
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.
Carbon black (1333-86-4)	
IARC group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Not classified

Symptoms/Injuries After Skin Contact: Not classified

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Not classified.

Cyclohexane (110-82-7)	
LC50 Fish 1	3.96 – 5.18 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	0.9 mg/l
LC50 Fish 2	23.03 – 42.07 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
NOEC Chronic Algae	0.94 mg/l
Ethyl acetate (141-78-6)	
LC50 Fish 1	220 – 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
Acrylic acid (79-10-7)	
LC50 Fish 1	222 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
EC50 - Crustacea [1]	95 mg/l (Exposure time: 48 h - Species: Daphnia magna)
ErC50 (Algae)	0.13 mg/l
NOEC Chronic Algae	0.016 mg/l
Acetic acid (64-19-7)	
LC50 Fish 1	79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
Vinyl acetate (108-05-4)	
LC50 Fish 1	14 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 Fish 2	15.04 (15.04 – 21.54) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
Crotonaldehyde (4170-30-3)	
LC50 Fish 1	0.65 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 - Crustacea [1]	2 mg/l (Exposure time: 48 h - Species: Daphnia magna)

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LC50 Fish 2	0.84 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
Octamethylcyclotetrasiloxane (556-67-2)	
LC50 Fish 1	> 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
LC50 Fish 2	> 1000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
Propanedioic acid, diethyl ester (105-53-3)	
LC50 Fish 1	10.3 – 13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	202.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC Chronic Crustacea	10 mg/l
D-Limonene (5989-27-5)	
LC50 Fish 1	0.619 (0.619 – 0.796) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	0.421 mg/l
LC50 Fish 2	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
Propylene glycol monomethyl ether acetate (108-65-6)	
LC50 Fish 1	161 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	> 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Carbon black (1333-86-4)	
EC50 - Crustacea [1]	5600 mg/l (Exposure time: 24 h - Species: Daphnia magna)
1,2-Propanediol (57-55-6)	
LC50 Fish 1	51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	10000 mg/l (Exposure time: 24 h - Species: Daphnia magna)
LC50 Fish 2	41 – 47 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [2]	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)	
LC50 Fish 1	> 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	1919 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Sodium hydroxide (1310-73-2)	
LC50 Fish 1	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	40 mg/l
Graphite (7782-42-5)	
LC50 Fish 1	> 100 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
EC50 - Crustacea [1]	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])
ErC50 (Algae)	> 100 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])
NOEC Chronic Fish	> 100 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
NOEC Chronic Crustacea	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])
NOEC Chronic Algae	> 100 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])

12.2. Persistence and Degradability

Graphene-Acrylic Tire Shine	
Persistence and Degradability	Not established.
Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)	
Persistence and Degradability	Readily biodegradable.

12.3. Bioaccumulative Potential

Graphene-Acrylic Tire Shine	
Bioaccumulative Potential	Not established.
Cyclohexane (110-82-7)	
Partition coefficient n-octanol/water (Log Pow)	3.44
Ethyl acetate (141-78-6)	
BCF Fish 1	30
Partition coefficient n-octanol/water (Log Pow)	0.6

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Acrylic acid (79-10-7)	
Partition coefficient n-octanol/water (Log Pow)	0.38 – 0.46 (at 25 °C)
Acetic acid (64-19-7)	
Partition coefficient n-octanol/water (Log Pow)	-0.31 (at 20 °C)
Vinyl acetate (108-05-4)	
Partition coefficient n-octanol/water (Log Pow)	0.73
Octamethylcyclotetrasiloxane (556-67-2)	
BCF Fish 1	12400
Partition coefficient n-octanol/water (Log Pow)	5.1
Propanedioic acid, diethyl ester (105-53-3)	
Partition coefficient n-octanol/water (Log Pow)	0.96
Propylene glycol monomethyl ether acetate (108-65-6)	
Partition coefficient n-octanol/water (Log Pow)	0.43
1,2-Propanediol (57-55-6)	
BCF Fish 1	< 1
Partition coefficient n-octanol/water (Log Pow)	-0.92
Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)	
Partition coefficient n-octanol/water (Log Pow)	-0.064 (at 20 °C)
Bioaccumulative Potential	Not expected to bioaccumulate.

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT Not regulated for transport

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

All components in this mixture are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, have been exempted, are not listed, not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

Graphene-Acrylic Tire Shine	
SARA Section 311/312 Hazard Classes	Health hazard - Respiratory or skin sensitization
Cyclohexane (110-82-7)	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb

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SARA Section 313 - Emission Reporting	1 %
Ethyl acetate (141-78-6)	
CERCLA RQ	5000 lb
Acrylic acid (79-10-7)	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	5000 lb
SARA Section 313 - Emission Reporting	1 %
Acetic acid (64-19-7)	
CERCLA RQ	5000 lb
Vinyl acetate (108-05-4)	
Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	5000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb
SARA Section 313 - Emission Reporting	0.1 %
Crotonaldehyde (4170-30-3)	
Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb
SARA Section 313 - Emission Reporting	1 %
Alcohols, C10-16, ethoxylated (68002-97-1)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
Octamethylcyclotetrasiloxane (556-67-2)	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a final TSCA section 4 test rule.
Propylene glycol monomethyl ether acetate (108-65-6)	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance.
Sodium hydroxide (1310-73-2)	
CERCLA RQ	1000 lb

15.2. US State Regulations

Cyclohexane (110-82-7)	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
U.S. - Massachusetts - Right To Know List	
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List	
Ethyl acetate (141-78-6)	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
U.S. - Massachusetts - Right To Know List	
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List	
Acrylic acid (79-10-7)	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
U.S. - Massachusetts - Right To Know List	
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List	
Acetic acid (64-19-7)	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
U.S. - Massachusetts - Right To Know List	
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List	

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Vinyl acetate (108-05-4)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Crotonaldehyde (4170-30-3)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Propanedioic acid, diethyl ester (105-53-3)
U.S. - New Jersey - Right to Know Hazardous Substance List
Carbon black (1333-86-4)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
1,2-Propanediol (57-55-6)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
Sodium hydroxide (1310-73-2)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Graphite (7782-42-5)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision	: 07/12/2021
Formula Identification Number	: 40788
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Full Text Phrases:

Acute Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapor) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3

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Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Gas 1	Flammable gases Category 1
Flam. Liq. 1	Flammable liquids Category 1
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Met. Corr. 1	Corrosive to metals Category 1
Muta. 1B	Germ cell mutagenicity Category 1B
Muta. 2	Germ cell mutagenicity Category 2
Press. Gas (Comp.)	Gases under pressure Compressed gas
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H220	Extremely flammable gas
H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H280	Contains gas under pressure; may explode if heated
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H330	Fatal if inhaled
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation

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H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

NFPA Health Hazard

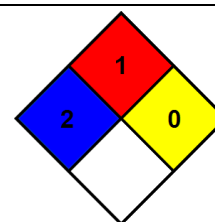
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA Fire Hazard

: 1 - Materials that must be preheated before ignition can occur.

NFPA Reactivity Hazard

: 0 - Material that in themselves are normally stable, even under fire conditions.



HMIS III Rating

Health : 2 Moderate Hazard

Flammability : 1 Slight Hazard

Physical : 0 Minimal Hazard

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