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Safety Data Sheet Ceramic Headlight Coating Wipes

SECTION 1: PRODUCT & COMPANY INFORMATION

Manufacturer	Griot's Garage Inc., 3333 South 38th St., Tacoma, WA · 800-345-5789 www.griotsgarage.com	
Product Family	Car Care	
Trade Name(s)	Ceramic Headlight Coating Wipes	
Product ID	98740	
Recommended Use	Automotive Headlight Coating	24-Hour Emergency Phone Number
Revision Date	02/26/2020	800-345-5789

The information contained in this Safety Data Sheet (SDS) is, to the best of our knowledge, true and accurate and presented in good faith. Griot's Garage, Inc. makes no warranties, expressed or implied, as to the accuracy and adequacy of this information. Because many factors may affect processing or application/use of this product, this data is offered solely for the user's consideration, investigation and verification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or process. Regulatory requirements are subject to change and may differ from one location to another. It is the responsibility of the buyer/user to ensure its activities comply with all local, state and federal regulations.

SECTION 2: HAZARD IDENTIFICATION

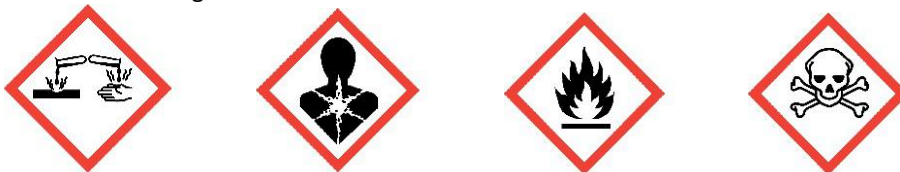
GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Liquids, 2
Health, Specific target organ toxicity - Single exposure, 3
Environmental, Hazards to the aquatic environment - Chronic, 3
Health, Acute toxicity, 3 Oral
Health, Acute toxicity, 3 Inhalation
Health, Acute toxicity, 3 Dermal
Health, Skin corrosion/irritation, 1 B
Health, Serious Eye Damage/Eye Irritation, 1
Health, Specific target organ toxicity - Single exposure, 1

GHS Label Elements, Including Precautionary Statements:

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H225 - Highly flammable liquid and vapour
H336 - May cause drowsiness or dizziness
H412 - Harmful to aquatic life with long lasting effects
H301 - Toxic if swallowed
H331 - Toxic if inhaled
H311 - Toxic in contact with skin
H314 - Causes severe skin burns and eye damage



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H318 - Causes serious eye damage

H370 - Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

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

P264 - Wash skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - 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.

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

P310 - Immediately call a POISON CENTER or doctor/ physician.

P312 - Call a POISON CENTER or doctor/ physician if you feel unwell.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P330 - Rinse mouth.

P332 + P313 - If skin irritation occurs: Get medical advice/ attention.

P337 + P313 - If eye irritation persists: Get medical advice/ attention.

P362 - Take off contaminated clothing and wash before reuse.

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

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.

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

SECTION 3: COMPOSITION

Ingredient	CASRN	Percentage
Ambient Cure Refractory Resin	*	20 – 40%
Wetting Agent	*	25 – 35%
Leveling Agent	*	40%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as significantly hazardous to health or the environment and hence require reporting in this section.

* Trade Secret: In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200(i) and in accordance with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), the specific identity and/or exact percentage (concentration) of the composition has been withheld as a "Trade Secret."

SECTION 4: FIRST AID MEASURES



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- Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops, have trained person administer artificial respiration. Maintain an open airway. Loosen tight clothing. If symptoms develop, seek medical attention.
- Skin Contact:** Remove all contaminated clothing and shoes. Wash thoroughly with soap and water for at least 15 minutes. Wash all clothing before re-use. If symptoms develop, seek medical attention.
- Eye Contact:** Remove contact lenses. Immediately flush with water for at least 15 minutes, forcibly holding eyes apart. If symptoms develop, seek medical attention.
- Ingestion:** Rinse mouth out and then drink plenty of water. Only induce vomiting at the instruction of medical personnel. Vomiting may be dangerous. Keep head low so vomit does not enter lungs. Never induce vomiting or give anything by mouth to an unconscious or convulsing person. Keep patient at rest. Seek immediate medical attention.

SECTION 5: FIREFIGHTING MEASURES

- Extinguishing Media:** Carbon dioxide, dry chemical powder, or appropriate foam.
- Fire Fighting Procedures:** Evacuate all unnecessary personnel. Shut down motors, pumps, electrical service, and eliminate sources of ignition. Use water spray to cool containers and avoid pressure build-up. Wear self-contained breathing apparatus and full protective clothing.
- Fire and Explosion Hazard:** Contains possibly combustible materials. Over-heated containers may rupture. Fumes may be flammable/explosive in air when in the presence of an ignition source. Vapors may travel a significant distance to a source of ignition and flashback.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Evacuate all unnecessary personnel and surrounding areas, and eliminate all sources of ignition if safe to do so. Wear proper personal equipment, especially a sufficient respirator. Do not touch or walk through spilled material. Provide adequate ventilation and avoid breathing vapors.
- Environmental Precautions:** Contain liquids and prevent discharge into streams, soil, waterways, drains, and sewers. Control or stop the loss of volatile material to the atmosphere. Do not apply water to the spill. Spills should be reported, if required, to the appropriate local, state, or federal agencies, especially if environmental pollution has occurred. In case of a major release or road spill, notify PERS: 1-800-633-8253 (USA & Canada) or 001-1-801-629-0667 (International).

Remove all sparking devices or ignition sources. Product is flammable. Stop leak if without risk. Move containers from spill area. Approach spill from upwind. Cover with an inorganic absorbent, such as vermiculite, perlite, ground clay, or sand. Sweep up and dispose according to local, state, and federal regulations. Contaminated absorbent may pose the same hazard as spilled material does. Use spark-proof tools and explosion-proof equipment.

SECTION 7: HANDLING & STORAGE

- Handling Precautions:** This material is rated as flammable.
Avoid vapor formations and use with adequate ventilation.
Avoid breathing fumes.
Vapors are heavier than air and will tend to collect in low areas. Avoid use in confined spaces.
Avoid bodily contact with material.
Wear appropriate personal protective equipment.
Wash thoroughly after handling and avoid contact with eyes.
No eating, drinking, or smoking near areas where substance is handled, processed or stored.
Flammable vapors may form explosive mixtures in the air.
Use non sparking tools.



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Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair.
Clean spills immediately.

- Storage Requirements:**
- Keep away from heat, static electricity discharges, and all sources of ignition.
 - Avoid moisture and extreme temperatures.
 - Avoid shock and friction.
 - Store in a cool, dry area away from direct sunlight. Avoid freezing.
 - Do not allow cross-contamination, and keep away from incompatible materials.
 - Keep tightly closed when not being used, but vent carefully before using.
 - Label all containers appropriately.
 - Do not reuse containers.
 - Do not store near food or drinks.
 - Avoid excessive aging.
 - Store in accordance with federal regulations.

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

Engineering Controls: Adequate room ventilation plus local exhaust at points of emission to maintain levels of airborne contaminants below exposure limits. Assure ACGIH TWA and OSHA PEL limits (varies by product) are maintained. Use of fume hoods or closed booths required when product is used in a manner that may generate mist or aerosol.

Personal Protective Equipment: Eye/face protection: Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands. Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Emergency eyewash and shower capabilities should be in close proximity. Employ proper hygienic measures after working with material and before eating, smoking, or using the restroom. Fully wash any contaminated clothing. Avoid breathing fumes.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance	Moistened Towlette	Odor	Ammoniacal
Physical State	Moistened Towlette	Molecular Formula	Mixture
Odor Threshold	Not Applicable	Solubility	Reacts with water
Particle Size	Not Applicable	Softening Point	Not Applicable
Density	Not Determined	Percent Volatile	Not Applicable
Viscosity	Not Applicable	Heat Value	Not Applicable
Saturated Vapor Concentration	Not Applicable	Freezing/Melting Point	Not Applicable
Boiling Point	>101°C	Flash Point	0°C / 32°F
Flammability	Flammable	Octanol	Not Applicable
Partition Coefficient	Not Applicable	Vapor Density	Not Determined
Vapor Pressure	Not Applicable	VOC	Exempt
pH	Not Determined	Bulk Density	Not Applicable
Evaporation Rate	Not Applicable	Auto-Ignition Temperature	Not Determined
Molecular Weight	Not Applicable	UFL/LFL	Not Determined



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Decomposition Temperature Not Applicable

SECTION 10: STABILITY & REACTIVITY

Reactivity: Reacts with water.
Chemical Stability: Stable.
Conditions to Avoid: Extreme temperatures, moisture, vapor formation and sources of ignition.
Materials to Avoid: Strong oxidizing agents, strong acids, water, and alkalines.
Hazardous Decomposition: Carbon dioxide, carbon monoxide, and silicon oxides may be produced from all coating formulations.
Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Wetting Agent - Trade Secret [25-35%] - Information on toxicological effects

Acute toxicity: LD50 Oral – rat: > 2,000 mg/kg
LC50 Inhalation – rat: 4 h - 36,000 mg/m³
Remarks: Behavioral: Excitement. Lungs, Thorax, or Respiration: Dyspnea. Skin and Appendages: Other: Hair.
LD50 Dermal – rabbit: > 4,640 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: No skin irritation - 24 h (OECD Test Guideline 404)
Serious eye damage/eye irritation: Eyes - rabbit Result: No eye irritation - 24 h (OECD Test Guideline 405)

Respiratory or skin sensitisation: Maximisation Test - guinea pig
Result: Does not cause skin sensitisation. (OECD Test Guideline 406)

Germ cell mutagenicity - S. typhimurium: Result: negative

Mutagenicity (micronucleus test) rat: male and female

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Suspected human reproductive toxicant
Reproductive toxicity - rat: Inhalation: Effects on Newborn: Live birth index (# fetuses per litter; measured after birth). Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure: no data available
Specific target organ toxicity - repeated exposure: no data available
Aspiration hazard: no data available
Repeated dose toxicity – rabbit: male and female

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Leveling Agent - Trade Secret - [40%] - Information on toxicological effects



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Acute toxicity:	Oral LD50 LD50 Oral - rat - > 5,000 mg/kg Inhalation LC50 LC50 Inhalation - rat - 4 h - 106,000 mg/m ³ Dermal LD50 LD50 Dermal - rabbit - > 5,000 mg/kg Other information on acute toxicity: no data available
Skin corrosion/irritation:	Skin - rabbit - Mild skin irritation – 24
Serious eye damage/eye irritation:	Eyes - rabbit - Mild eye irritation – 24
Respiratory or skin sensitization	
Germ cell mutagenicity	
Genotoxicity in vitro:	Not mutagenic in Ames Test Histidine reversion (Ames Carcinogenicity).
Carcinogenicity:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Specific target organ toxicity - single exposure	no data available
Specific target organ toxicity - repeated exposure:	no data available
Aspiration hazard	Yes
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation. May cause dizziness.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	Prolonged or repeated exposure to skin causes defatting and dermatitis. May cause eye irritation.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

Wetting Agent - Trade Secret - [25-35%] - Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Leuciscus idus* (Golden orfe) - 200.0 mg/l - 96 h.

Toxicity to daphnia and EC50 - *Daphnia magna* (Water flea) - > 0.015 mg/l - 48 h.

other aquatic invertebrates

Toxicity to algae EC50 - *Selenastrum capricornutum* (green algae) - > 0.022 mg/l - 96 h.

Persistence and degradability: no data available

Bioaccumulative potential: Bioaccumulation *Pimephales promelas* (fathead minnow) - 0.160 µg/l

Bioconcentration factor (BCF): 12,400

Pimephales promelas (fathead minnow) - 28 d

Bioconcentration factor (BCF): 14,261

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Leveling Agent - Trade Secret - [40%] - Information on ecological effects



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Toxicity:

Toxicity to fish flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 3.02 mg/l - 96 h.

Persistence and degradability: Biodegradability Result: - Not readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

This product is not regulated by the EPA. It is the waste generator's responsibility to determine how disposal must occur. Minimize or avoid the generation of waste whenever possible. Dispose of waste, unused material, and empty containers according to federal, state, and local regulations. Do not mix this product with aqueous or other waste streams.

SECTION 14: TRANSPORT INFORMATION

US DOT/IATA:

Proper Shipping Name: Paint Related Materials

Hazard Class: 3

UN Number: 1263

Packing Group: II

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

SECTION 15: REGULATORY INFORMATION

Ingredient	CASRN	Percentage
Ambient Cure Refractory Resin	*	20 – 40%
Wetting Agent	*	25 – 35%
Leveling Agent	*	40%

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

U.S. TOXIC SUBSTANCES CONTROL ACT: All components of this product are on the TSCA Inventory or are exempt from the TSCA Inventory requirements under 40 CFR 720.30.

RoHS-2: Product complies with the EU RoHS-2 Directive and Amendments, including 2006/122/EC.

TSE/BSE: Product complies with European Parliament and Council Regulation (EC) No. 999/2001.

SECTION 16: OTHER INFORMATION

Disclaimer: The data presented here relates only to the specific material designated herein and does not relate to use in combination with any other materials or in any process. The information set forth above is based on technical data believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, no warranties, expressed or implied are made, and no liability is assumed in connection with any use of this information. Judgments as to the suitability of this information for the user's purposes are necessarily the user's responsibility.



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Potential Health Effects: Consumers accessing our SDS information should keep in mind the information is presented in a format required by the U.S. Government's Occupational Safety and Health Administration (OSHA). We provide SDS as a service for our business customers. These industrial SDSs are not applicable to consumer use of these products. We thoroughly evaluate the safety aspects of all of our consumer products prior to their use in the home.

Revision Date: 2/26/2020