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**Cerakote Headlight Step 3: Ceramic Clear Coating**


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**1 PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** Cerakote Headlight Step 3: Ceramic Clear Coating  
**Revision Date:** 2/26/2020  
**Version:** 1.0  
  
**Supplier Details:** NIC Industries, Inc.  
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**Emergency Contact: Call PERS: 1-800-633-8253 (USA & Canada) or 001-1-801-629-0667 (International).**

The information contained in this Safety Data Sheet (SDS) is, to the best of our knowledge, true and accurate and presented in good faith. NIC Industries, 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.

**2 HAZARDS IDENTIFICATION**
**Classification of the Substance or Mixture**
**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  
 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/ vapours/ 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.

**3 COMPOSITION/INFORMATION OF INGREDIENTS**

Chemical Ingredients:		
CAS#	%	Chemical Name:
*****	20-40%	Ambient Cure Refractory Resin
*****	25-35%	Wetting Agent
*****	40%	Leveling Agent

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."

**4 FIRST AID MEASURES**

**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.

**5 FIRE FIGHTING 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 flash back.

**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.

**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.  
 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.

**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.

<b>Appearance:</b>	Moistened towelette.	<b>Odor:</b>	Ammoniacal.
<b>Physical State:</b>	Moistened towelette.	<b>Molecular Formula:</b>	Mixture.
<b>Odor Threshold:</b>	Not applicable.	<b>Solubility:</b>	Reacts with water.
<b>Particle Size:</b>	Not applicable.	<b>Softening Point:</b>	Not applicable.
<b>Spec Grav./Density:</b>	Not determined.	<b>Percent Volatile:</b>	Not applicable.
<b>Viscosity:</b>	Not applicable.	<b>Heat Value:</b>	Not applicable.
<b>Saturated Vapor Concentration:</b>	Not applicable.	<b>Freezing/Melting Pt.:</b>	Not applicable.
<b>Boiling Point:</b>	>101°C	<b>Flash Point:</b>	0°C (32°F)
<b>Flammability:</b>	Flammable.	<b>Octanol:</b>	Not applicable.
<b>Partition Coefficient:</b>	Not applicable.	<b>Vapor Density:</b>	Not determined.
<b>Vapor Pressure:</b>	Not applicable.	<b>VOC:</b>	Exempt.
<b>pH:</b>	Not determined.	<b>Bulk Density:</b>	Not applicable.
<b>Evap. Rate:</b>	Not applicable.	<b>Auto-Ignition Temp:</b>	Not determined.
<b>Molecular weight:</b>	Not applicable.	<b>UFL/LFL:</b>	Not determined.
<b>Decomp Temp:</b>	Not applicable.		

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

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

## Acute toxicity:

LD50 Oral - rat - &gt; 2,000 mg/kg

LC50 Inhalation - rat - 4 h - 36,000 mg/m<sup>3</sup> Remarks: Behavioral:Excitement. Lungs, Thorax, or Respiration:Dyspnea. Skin and Appendages: Other: Hair.

LD50 Dermal - rabbit - &gt; 4,640 mg/kg

no data available

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.

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

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**

Acute toxicity:

Oral LD50 LD50 Oral - rat - > 5,000 mg/kg

Inhalation LC50 LC50 Inhalation - rat - 4 h - 106,000 mg/m<sup>3</sup>

Dermal LD50 LD50 Dermal - rabbit - > 5,000 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritatio Skin - rabbit - Mild skin irritation - 24

Serious eye damage/eye irritatio 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).

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 (Globally Harmonized System):

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):no data available

Aspiration hazard

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposur Prolonged or repeated exposure to skin causes defatting and dermatitis, dizziness, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**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**

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.

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**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.

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

[%] RQ (CAS#) Substance - Reg Codes

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[20-40%] Trade Secret - Ambient Cure Refractory Resin

[25-35%] Trade Secret - Wetting Agent

[40%] Trade Secret - Leveling Agent

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

Regulatory Code Legend

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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: NIC Industries, Inc. products comply with the EU RoHS-2 Directive and Amendments, including 2006/122/EC.

TSE/BSE: NIC Industries, Inc. products comply with European Parliament and Council Regulation (EC) No. 999/2001.

U.S. Federal Regulations:

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to all of your employees.

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Revision Date: 2/26/2020