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**H-Series & Elite-Series Coatings Catalyst (Part B)**

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**1 PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** H-Series & Elite-Series Coatings Catalyst (Part B)  
**Revision Date:** 2/5/2020  
**Version:** 1.3  
**Product Use:** Thin-film ceramic coating.

**Supplier Details:** NIC Industries, Inc  
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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.

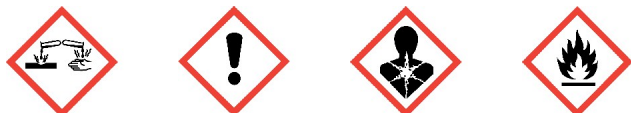
**2 HAZARDS IDENTIFICATION****Classification of the Substance or Mixture****GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Physical, Flammable Liquids, 2  
Health, Skin corrosion/irritation, 1 B  
Health, Respiratory or skin sensitization, 1 Skin  
Health, Serious Eye Damage/Eye Irritation, 1  
Health, Specific target organ toxicity - Single exposure, 3  
Health, Germ cell mutagenicity, 2  
Health, Specific target organ toxicity - Single exposure, 2  
Environmental, Hazards to the aquatic environment - Acute, 3  
Environmental, Hazards to the aquatic environment - Chronic, 3

**GHS Label Elements, Including Precautionary Statements**

**GHS Signal Word: DANGER**

**GHS Hazard Pictograms:**

**GHS Hazard Statements:**

H225 - Highly flammable liquid and vapour  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation  
H341 - Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)  
H371 - May cause damage to organs  
H402 - Harmful to aquatic life  
H412 - Harmful to aquatic life with long lasting effects

**GHS Precautionary Statements:**

P102 - Keep out of reach of children.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 - Do not spray on an open flame or other ignition source.

P232 - Protect from moisture.  
P240 - Ground/bond container and receiving equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P262 - Do not get in eyes, on skin, or on clothing.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P281 - Use personal protective equipment as required.  
P284 - Wear respiratory protection.  
P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P302+352 - IF ON SKIN: Wash with soap and water.  
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 - IF INHALED: Seek immediate medical attention.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 - IF IN EYES: Seek immediate medical attention.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P306+360 - IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
P310 - Immediately call a POISON CENTER or doctor/ physician.  
P313 - Get medical advice/attention.  
P332+313 - If skin irritation occurs: Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P370+376 - In case of fire: Stop leak if safe to do so.  
P370+378 - In case of fire: Use CO2, dry chemical powder, foam, alcohol foam or water spray for extinction.  
P370+380 - In case of fire: Evacuate area.  
P374 - Fight fire with normal precautions from a reasonable distance.  
P381 - Eliminate all ignition sources if safe to do so.  
P402+404 - Store in a dry place. Store in a closed container.  
P403+233 - Store in a well ventilated place. Keep cool, and keep container tightly closed.  
P410+403 - Protect from sunlight. Store in a well ventilated place.  
P420 - Store away from other materials.  
P501 - Dispose of contents/container to licensed waste facility.

### Hazards not Otherwise Classified (HNOC) or not Covered by GHS

**Route of Entry:** Inhalation, Ingestion, Skin, Eyes.  
**Target Organs:** Central Nervous System, Kidneys, Liver, Lungs.  
**Inhalation:** May cause irritation to the respiratory system and breathing difficulties.  
**Skin Contact:** May cause severe skin burns, rashes, eczema and redness. Prolonged or repeated exposure may aggravate existing conditions.  
**Eye Contact:** May cause severe eye irritation and severe eye damage.  
**Ingestion:** Harmful if swallowed. Ingestion may cause damage to the lining of the gastrointestinal tract.

<b>3</b>	<b>COMPOSITION/INFORMATION OF INGREDIENTS</b>
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Chemical Ingredients:		
CAS#	%	Chemical Name:
*****	10-30%	Metal-Modified Organic Base
*****	30-55%	Reactive Modifier
*****	10-30%	Cross-linking Agent
*****	10-30%	Proprietary Coupling Agent

\*In compliance with OSHA Hazard Communication Standard 29 CFR 1910.1200(i), the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a Trade Secret.

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.

<b>4</b>	<b>FIRST AID MEASURES</b>
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**Inhalation:** If product mist or vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. If unconscious, maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband. Contact a doctor, emergency personnel, or a poison control center if the victim feels unwell.

**Skin Contact:** Flush skin with large amounts of water for at least 15 minutes while removing contaminated clothing. Wash the affected area with soap and water and continue rinsing. Wash contaminated clothing and shoes thoroughly before reuse. If irritation persists, seek medical attention.

**Eye Contact:** Immediately flush eyes with large amounts of water or saline solution for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after first 2 minutes and continue rinsing. If irritation persists, seek medical advice, preferable from an ophthalmologist.

**Ingestion:** Rinse mouth with water if the victim is conscious. Remove dentures, if present. DO NOT induce vomiting unless directed to do so by medical personnel. Vomiting may occur spontaneously. To prevent aspiration of material into the lungs, lay the victim on one side with the head lower than the waist. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Seek immediate medical attention or call a poison control center.

## 5 FIRE FIGHTING MEASURES

**Flammability:** Flammable Liquid Formulation.

**Flash Point:** 135°C (275°F)

**Flash Point Method:** Closed cup.

**Extinguishing Media:**

Carbon dioxide or dry chemical powder.

**Unsuitable Extinguishing Media:**

Foam and water.

**Fire Fighting Procedures:**

Evacuate all unnecessary personnel. Shut down motors, pumps, electrical service, and eliminate sources of ignition if safe to do so. Use water spray to cool containers and avoid pressure build-up in surrounding containers (do not allow water to mix with product). If fire occurs, isolate area, contain and eliminate fire, then dispose of debris in accordance with official regulations. Stay upwind of material at all times. Wear butyl rubber boots, gloves and body suit with SCBA. May generate toxic and irritating combustion products.

**Sensitivity of Static Charge:**

Electrostatic charge may build up during handling. Grounding of equipment is required.

**Fire and Explosion Hazard:**

Flammable Liquid. Over-heated containers may rupture.

## 6 ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment, and emergency procedures:**

Evacuate non-essential personnel. Ventilate the area. Remove all sources of ignition. Wear appropriate protective clothing and equipment designated in Section 8.

### **Environmental Precautions:**

Contain liquids and prevent discharge into streams 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.

### **Methods and materials for containment and cleaning up:**

Clean up spills immediately. Cover drains and contain spill. Cover spill with a large quantity of inert absorbent. Do not use combustible material such as sawdust. Collect material using non-sparking tools and place into an approved container(s) for proper disposal. Observe possible material restrictions. Do not allow material or runoff from rinsing contaminated areas to enter floor drains or storm drains and ditches that lead to waterways. Dispose of via a licensed waste disposal contractor.

## 7 HANDLING AND STORAGE

### **Handling Precautions:**

Avoid breathing fumes. Avoid bodily contact with material. Wear appropriate personal protective equipment (PPE). Wash thoroughly after handling.

Keep away from heat, sparks, pilot lights, welding operations, and open flames. Flammable vapors may form explosive mixtures in air. Do not eat, drink, or smoke in areas where this material is used. Do not get in eyes, clothing, or on skin. Ground all equipment and use non-sparking tools.

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

Avoid vapor formations and use with adequate ventilation. Vapors are heavier than air and will tend to collect in low areas. Avoid use in confined spaces. Areas of poor ventilation could contain concentrations high enough to cause unconsciousness and death. Use approved air respirator following manufacturer's recommendations where vapors may be generated.

### **Storage Requirements:**

Keep container properly closed and properly labeled. Store in accordance with local regulations. Store in dry, cool, and well-ventilated areas. Do not store in temperatures below 50F or above 77F. Keep away from incompatible materials, food, and drink. Keep away from heat and ignition sources. Avoid excessive aging. Transfer only to approved containers having correct labeling. Keep containers tightly closed when not in use. Protect containers against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent spillage. Containers are hazardous when empty as they contain product residues. Do not allow cross-contamination,

and keep away from incompatible materials. Use appropriate containment to avoid environmental contamination. Vent periodically, if needed, to release head pressure. Ventilate enclosed areas. Avoid shock and friction. Avoid freezing. Keep out of reach of children.

## 8

### EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls:** Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable.
- Personal Protective Equipment:** Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be obtained from the representative supplier.
- US OSHA PEL "Proprietary Coupling Agent" (Trade Secret):** 19 mg/m<sup>3</sup>
- Hygiene measures:** Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, smoking, or using the restroom.
- Eye/Face protection:** Wear safety glasses with unperforated side shields or protective splash goggles during use.
- Hand protection:** Wear gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.
- Skin protection:** Wear protective clothing. Wear protective boots if the situation requires.
- Respiratory protection:** Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.
- Environmental exposure controls:** Do not empty into drains.
- PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean, fit, and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

## 9

### PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Varies in color from yellow-orange to dark orange.		
<b>Physical State:</b>	Liquid.	<b>Odor:</b>	Ammoniacal.
<b>Odor Threshold:</b>	Not available.	<b>Molecular Formula:</b>	Not available.
<b>Particle Size:</b>	Not available.	<b>Solubility:</b>	Not available.
<b>Spec Grav./Density:</b>	Not available.	<b>Softening Point:</b>	Not available.
<b>Viscosity:</b>	Not available.	<b>Percent Volatile:</b>	Not available.
<b>Saturated Vapor Concentration:</b>	Not available.	<b>Heat Value:</b>	Not available.
<b>Boiling Point:</b>	Decomposes.	<b>Freezing/Melting Pt.:</b>	Not available.
<b>Flammability:</b>	Flammable.	<b>Flash Point:</b>	135°C (275°F)
<b>Partition Coefficient:</b>	Not available.	<b>Octanol:</b>	Not available.
<b>Vapor Pressure:</b>	Not available.	<b>Vapor Density:</b>	Not available.
<b>pH:</b>	Not available.	<b>VOC:</b>	Not available.
<b>Evap. Rate:</b>	Not available.	<b>Bulk Density:</b>	Not available.
<b>Molecular weight:</b>	Not available.	<b>Auto-Ignition Temp:</b>	Not available.
<b>Decomp Temp:</b>	Not available.	<b>UFL/LFL:</b>	Not available.

## 10

### STABILITY AND REACTIVITY

- Reactivity:** Reacts with water, amines, and alcohol.
- Chemical Stability:** Stable.
- Conditions to Avoid:** Extreme temperatures, direct sunlight, moisture, vapor formation and sources of ignition.
- Materials to Avoid:** Strong oxidizing agents, strong acids, strong alkaline materials, alcohols, amines, water, moisture and contact with

**Hazardous Decomposition:** other unpolymerized monomers or polymers.  
May contain carbon monoxide, carbon dioxide, nitrogen oxide(s), corrosive gases/vapours, hydrogen, ammonia and hydrocarbons.

**Hazardous Polymerization:** Will not occur.

## 11 TOXICOLOGICAL INFORMATION

Not known to contain any ingredients recognized as carcinogens by the National Toxicology Program (NTP), the International Agency for Cancer Research (IARC) or the Occupational Safety and Health Administration (OSHA).

Acute Oral Toxicity: contains materials that are believed to be possible skin sensitizers. Contains materials harmful to eyes and skin with an LD50 Oral rating of > 300-2,000 mg/kg.

Acute Inhalation Toxicity: causes mucosal irritations, shortness of breath, and cough.

Acute Dermal Toxicity: causes severe burns.

Germ cell mutagenicity:  
Not available.

## 12 ECOLOGICAL INFORMATION

Water hazard class 3: Avoid disposal in landfills and sewage systems. Avoid any discharge into the environment.

Toxicity to fish:  
LC50 (Danio rerio (zebra fish)): 57.1 mg/l.  
Exposure time: 96 h  
Method: OECD Test Guideline 203

## 13 DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of split material and runoff contact with soil, waterways, drains and sewers.

## 14 TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. The customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

US DOT: Not Regulated for Transport  
IATA: Not Regulated for Transport  
ICAO: Not Regulated for Transport

## 15 REGULATORY INFORMATION

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

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[0-100%] Trade Secret (\*\*\*\*\*)

[30-55%] Trade Secret (\*\*\*\*\* TSCA

[10-30%] Trade Secret (\*\*\*\*\* MASS, PA, TSCA

[10-30%] RQ(1000LBS), Trade Secret (\*\*\*\*\* CERCLA, CSWHS, EHS302, EPCRAWPC, GADSL, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL,

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

Regulatory Code Legend

- RQ = Reportable Quantity
- TSCA = Toxic Substances Control Act
- MASS = MA Massachusetts Hazardous Substances List
- PA = PA Right-To-Know List of Hazardous Substances
- CERCLA = Superfund Cleanup Substances
- CSWHS = Clean Water Act Hazardous Substances
- EHS302 = Extremely Hazardous Substance
- EPCRAWPC = EPCRA Water Priority Chemicals
- GADSL = Global Automotive Declarable Substance List (GADSL)
- HAP = Hazardous Air Pollutants
- NJHS = NJ Right-to-Know Hazardous Substances
- OSHAWAC = OSHA Workplace Air Contaminants
- PRIPOL = Clean Water Act Priority Pollutants
- SARA313 = SARA 313 Title III Toxic Chemicals
- TOXICPOL = Clean Water Act Toxic Pollutants
- TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
- TXAIR = TX Air Contaminants with Health Effects Screening Level
- TXHWL = TX Hazardous Waste List

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.

REACH: NIC Industries, Inc. products comply with the EU REACH Regulation EC No. 1907/2006.

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

Conflict Minerals: no NIC Industries, Inc. products contain any "conflict minerals" as defined in Section 1502 of the Dodd-Frank Act.

<b>16</b>	<b>OTHER INFORMATION</b>
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**NFPA:** Health = 2, Fire = 2, Reactivity = 1, Specific Hazard = No H2O



**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, material safety data sheets, training and access to written records. We request that you (as it is your legal duty to) make all information in this Safety Data Sheet available to all your employees.

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