

1	PRODUCT AND COMPANY IDENTIFICATION
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Product Identifier: Mastercoat Hot Jet High Heat Ceramic
Common Name: Dissolved metal complex/aluminum compound
SDS Number: A120
Revision Date: 1/19/2021
Version: 1
Product Use: Ceramic Header and Manifold Coating

Supplier Details: PM Industries
 939 Westbrook Road
 West Milford, NJ 07480

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Internet: www.masterseriescoatings.com
Emergency: Infotrac: USA: 1-800-535-5053 / International :352-323-3500

2	HAZARDS IDENTIFICATION
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Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):
 No GHS Classifications Indicated

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **NONE**

GHS Hazard Pictograms:

No GHS pictograms indicated for this product

GHS Hazard Statements:

No GHS hazards statements indicated

GHS Precautionary Statements:

- P201 - Obtain special instructions before use.
- P233 - Keep container tightly closed.
- P262 - Do not get in eyes, on skin, or on clothing.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P353 - Rinse skin with water/shower.
- P362 - Take off contaminated clothing and wash before reuse.
- P404 - Store in a closed container.

3	COMPOSITION/INFORMATION ON INGREDIENTS
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CAS#	Chemical Ingredients: % Chemical Name:
7732-18-5	35-45% Water
7429-90-5	40-50% Aluminum powder, uncoated
1312-76-1	5-15% Silicic acid, potassium salt

4	FIRST AID MEASURES
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Inhalation: If inhaled, remove to fresh air. Get immediate medical attention.
Skin Contact: Remove contaminated clothing and footwear immediately, and wash before reuse. Discard clothing and footwear which cannot be decontaminated.
 Promptly flush skin with water until all chemical is removed.
 Get medical attention if irritation develops and persists.
Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to

facilitate irrigation.

Then remove contact lenses, if easily removeable, and continue irrigation for not less than 15 minutes. Get immediate medical attention.

Ingestion: Do not induce vomiting. Rinse mouth with water. Give 200-300 ml (8 oz.) of water to drink. Get prompt, qualified medical attention.

5	FIRE FIGHTING MEASURES
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Flash Point: Not Applicable

Extinguishing Media - Use sand or carbon dioxide (CO₂).

Special Fire Fighting Procedures - Do not use extinguishing media containing water as a reaction with aluminum may produce hydrogen gas. Wear protective clothing and NIOSH/OSHA approved positive pressure self contained breathing apparatus in fire conditions.

Unusual Fire and Explosion Hazards - If material is allowed to evaporate to produce dry aluminum, the aluminum can then react with water to produce hydrogen gas.

6	ACCIDENTAL RELEASE MEASURES
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NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate personal protective equipment during clean-up. Spilled material is a slipping hazard.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

Disposal Considerations:

Preferred options for disposal are: (1) Separate solids from liquid by precipitation and decanting or filtering. Dispose of dry solids in a landfill that is permitted, licensed or registered by a state to manage industrial solid waste. Discharge liquid filtrate to a wastewater treatment system. (2) Incinerate only if incinerator is capable of scrubbing out hydrogen fluoride and other acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

7	HANDLING AND STORAGE
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Handling Precautions: Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Consider normal working hygiene. Launder contaminated clothing. Wash thoroughly after handling.

Storage Requirements: Protect from freezing.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Engineering Controls: Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

Personal Protective Equipment: Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face 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).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US)

or EN 166(EU).

Skin and body protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Components with workplace control parameters

Aluminum powder, uncoated (7429-90-5)

TWA 1 mg/m3 USA. ACGIH Threshold Limit Values (TLV)

Lower Respiratory Tract irritation Pneumoconiosis Neurotoxicity Not classifiable as a human carcinogen

TWA 15 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z- 1 Limits for Air Contaminants

TWA 5 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z- 1 Limits for Air Contaminants

TWA 15 mg/m3 USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

TWA 5 mg/m3 USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

TWA 5 mg/m3 USA. NIOSH Recommended Exposure Limits

TWA 10 mg/m3 USA. NIOSH Recommended Exposure Limits

9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance:	Gray	Odor:	No distinct odor
Physical State:	Liquid	Percent Volatile:	65%
Specific Gravity or Density:	1.55	Freezing or Melting Point:	32 F
Viscosity:	16-18 Seconds, #2 Zahn		
Boiling Point:	212 F		
Potentia Hydrogenii:	11		

10	STABILITY AND REACTIVITY
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Chemical Stability:	Product is stable under normal conditions.
Materials to Avoid Identification:	Strong Acids; Strong Bases.
Hazardous Decomposition:	Not known.
Hazardous Polymerization:	Will not occur.

11	TOXICOLOGICAL INFORMATION
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Aluminum powder, uncoated (7429-90-5)

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - > 2,000 mg/kg

Inhalation LC50 LC50 Inhalation - rat - 4 h - > 888 mg/l

Dermal LD50 no data available

Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available
 Germ cell mutagenicity: no data available

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.

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: no data available

Teratogenicity: no data available

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: no data available

Potential health effects: 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 Exposure: Cough, weight loss, anemia, Weakness, Incoordination.

Synergistic effects: no data available

Additional Information:

RTECS: BD0330000

Silicic acid, potassium salt (1312-76-1)**Acute toxicity**

Ingestion All symptoms of acute toxicity are due to high alkalinity. Material will cause irritation. Oral LD50 (rat) >5000 mg/kg bw
 Inhalation All symptoms of acute toxicity are due to high alkalinity. Mist is irritant to the respiratory tract. Inhalation LC50 (rat) >2.06 g/m³

Skin Contact Repeated and/or prolonged skin contact may cause slight irritation. Dermal LD50 (rat) >5000 mg/kg bw

Eye Contact Liquid or mist may cause discomfort and mild irritation.

Skin corrosion/irritation

Repeated and/or prolonged skin contact may cause slight irritation.

Serious eye damage/irritation Liquid or mist may cause discomfort and mild irritation.

Sensitisation Not sensitising.

Mutagenicity No evidence of genotoxicity. In vitro/in vivo negative.

Carcinogenicity No structural alerts.

Reproductive toxicity No evidence of reproductive toxicity or developmental toxicity.

STOT - single exposure Not classified

STOT - repeated exposure Not classified. NOAEL oral (rat) 159 mg/kg bw/d

Aspiration hazard Not classified

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ECOLOGICAL INFORMATION**Aluminum powder, uncoated (7429-90-5)**

Information on ecological effects

Toxicity: LC50 0.16mg/l, 96hrs. (Rainbow trout, donaldson trout)

Persistence and degradability: not biodegradeable

Bioaccumulative potential: no data available

Mobility in soil: no data available
 PBT and vPvB assessment: no data available
 Other adverse effects: no data available

Silicic acid, potassium salt (1312-76-1)

Toxicity
 Fish (Leuciscus idus) LC50 (48 hour) >146 mg/l
 Aquatic invertebrates: (Daphnia magna) EC50 (24 hour) >146 mg/l

Persistence and degradability: Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.

Bioaccumulative potential: Inorganic. The substance has no potential for bioaccumulation.

Mobility in soil: Not applicable.

Results of PBT and vPvB assessment: Not classified as PBT or vPvB.

Other adverse effects: The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

13	DISPOSAL CONSIDERATIONS
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Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws

Empty Container Precautions

Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

14	TRANSPORT INFORMATION
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Shipping Name: Class 55, Paint

Non-hazardous for air, sea and road freight.

15	REGULATORY INFORMATION
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Component (CAS#) [%] - CODES

 Water (7732-18-5) [35-45%] TSCA

Aluminum powder, uncoated (7429-90-5) [40-50%] EPCRAWPC, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

Silicic acid, potassium salt (1312-76-1) [5-15%] TSCA

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

Regulatory CODE Descriptions

 TSCA = Toxic Substances Control Act
 EPCRAWPC = EPCRA Water Priority Chemicals
 MASS = MA Massachusetts Hazardous Substances List
 NJHS = NJ Right-to-Know Hazardous Substances
 OSHAWAC = OSHA Workplace Air Contaminants
 PA = PA Right-To-Know List of Hazardous Substances
 SARA313 = SARA 313 Title III Toxic Chemicals
 TXAIR = TX Air Contaminants with Health Effects Screening Level

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OTHER INFORMATION

NOTICE: This information is presented in good faith and believed to be accurate as of the effective date below. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. PM Industries assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material. Regulatory requirements are subject to change and may differ from one location to another: it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The preceding specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

Revision Date: 1/19/2021