

**Section -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

1.1. Product Identifier: CS-7707 PT C - NYLON EPOXY COATING-ALUMINUM  
 - Product Name : NYLON EPOXY COATING COMPOUND  
 - Product reference: CS-7707-C

1.2. Product Use:  
 - NYLON EPOXY COATING COMPOUND

1.3. Manufacturer's Name:  
**CAGE Code: 14439**  
**Flamemaster Corp.**  
**Chem Seal Division**  
**13576 Desmond Street**  
**Pacoima, CA 91333 – USA**

1.3.1 Suppliers Name ( if not manufacturer )

Technical Contact:  
**Flamemaster Corp.**  
 Tel: 818-890-1401  
 Fax: 818-890-6001  
[www.flamemaster.com](http://www.flamemaster.com)

1.4. Emergency Telephone:  
 Chemtrec – Chemtrec International  
 800-424-9300 ( North America)  
 703-527-3887 (Outside North America))

<b>Specification :</b>	<b>DPM 2389</b>	<b>EPOXY NYLON COATING - ALUMINUM (PT C)</b>
<b>NSN:</b>	<b>NONE ISSUED FOR THIS PRODUCT</b>	

**Section -2. HAZARD ( S ) IDENTIFICATION**

OSHA/HCS STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)  
 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

FLAMMABLE SOLIDS - CATEGORY 1 - H228  
 ACUTE AQUATIC TOXICITY - CATEGORY 1 - H400  
 CHRONIC AQUATIC TOXICITY - CATEGORY 1 - H410

GHS LABEL REQUIREMENTS:  
 HAZARD PICTOGRAMS:



**SIGNAL WORD : DANGER**

**HAZARD STATEMENTS:**

FLAMMABLE SOLIDS - H228  
 ACUTE AQUATIC TOXICITY - H400  
 CHRONIC AQUATIC TOXICITY - H410

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) :  
 COMBUSTIBLE DUST

**Aluminum powder reacts with water to generate hydrogen gas.**

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PRECAUTIONARY STATEMENTS:

- P101+P102+P103: If medical advice is needed, have product container or label at hand. Keep out of reach of children.
- Read label before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames and hot surfaces-No Smoking
- P240:Ground/bond container and receiving equipment
- P261+P262+P263+P264:Avoid breathing dust/fumes/gas/mist/vapours/spray.Do not get in eyes , on skin, or on clothing. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling.
- P270+P271+P273: Do not eat drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment.
- P281+P280: Use personal protective equipment as required. Wear protective gloves/ protective clothing/ eye protection/face protection
- P301+P310+P331: If swallowed: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.
- P305+P351+P338+P315: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,if present and easy to do. Continue rinsing. Get immediate medical advice attention.
- P304+P340+P314: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell
- P342+P340+P315: If experiencing respiratory symptoms: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
- P302+P352: If on skin (or in hair) : Wash with plenty of soap and water. If skin irritation occurs seek medical attention
- P306+P361: If on clothing: Remove/ take off immediately all contaminated clothing
- P402+P403+P404: Store in a dry place. Store in a well ventilated space. Store in a closed container.
- P233+P234+P235: Keep container tightly closed. Keep only in original container. Keep cool.
- P370+P378 : In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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**Section -3. COMPOSITION / INFORMATION ON INGREDIENTS**

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**Chemical family** : Mixture of organic compounds

For the hazards of the composition, (SDS see Section 2).

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**ALUMINUM POWDER/FLAKE**

OSHA HAZARDS: FLAMMABLE SOLID, WATER REACTIVE

GHS CLASSIFICATION: ALUMINUM POWDER/FLAKE

FLAMMABLE SOLIDS (CATEGORY 1)

ACUTE AQUATIC TOXICITY (CATEGORY 1)

CHRONIC AQUATIC TOXICITY - CATEGORY 1

OTHER HAZARDS NOT LISTED:

DO NOT ALLOW DUST CLOUD TO FORM

**Aluminum powder reacts with water to generate hydrogen gas.**

**SPECIAL FIREFIGHTING PROCEDURES:**

**NEVER EMPLOY WATER- WATER REACTIVE**

**Aluminum powder reacts with water to generate hydrogen gas.**

IN CONFINED AREAS WEAR SELF CONTAINED BREATHING APPARATUS

EXTINGUISHING METHODS: CLASS "D" DRY CHEMICAL, SAND

PROPERLY GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT

KEEP AWAY FROM/WATER/ HEAT/SPARKS/OPEN FLAMES/HOT SURFACES-NO SMOKING

USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING/EQUIPMENT

WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING /EYE PROTECTION/FACE PROTECTION/RESPIRATORY PROTECTION

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<b>SUBSTANCE</b> <b>% by weight in the product</b>	<b>H&amp;P Statements</b>	<b>CAS</b>	<b>EINECS/ELINCS</b>
ALUMINUM POWDER/FLAKE 95%-98%	H228, H400, H410 P210,P240,P241,P273,P280, P370+P378	7429-90-5	231-072-3

Prolonged or repeated exposure may dry skin and / or cause skin irritation.  
Dust may be harmful if inhaled. Dust may form combustible concentrations in air.

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#### **Section -4. FIRST-AID MEASURES**

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##### Section -4. FIRST-AID MEASURES

General: When in doubt or symptoms persist, seek medical attention. Have Safety Data Sheet information available. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air, if breathing has stopped, administer artificial respiration. Give nothing by mouth, seek immediate medical attention.

Eye contact: Check for and remove any contact lenses. Irrigate with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek immediate medical attention.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleaners. Do NOT use aromatic solvents, thinners or petroleum products.

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

May be fatal if swallowed or vomited and enters lungs and/or airways. Never give anything by mouth to an unconscious person.

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#### **Section -5. FIRE-FIGHTING MEASURES**

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##### **Extinguishing agents**

**Recommended:** Dry Sand, Alcohol-Resistant Foam, Dry Chemical

**Agents to avoid:** Water, ABC Powder

##### **Attention**

##### **SPECIAL FIREFIGHTING PROCEDURES:**

**NEVER EMPLOY WATER- WATER REACTIVE**

**EXTINGUISHING METHODS: CLASS "D" DRY CHEMICAL, SAND**

**Aluminum powder reacts with water to generate hydrogen gas.**

Promptly remove all persons in the event of a fire from the fire area. If safe to do so, remove all containers from fire area as well.

Fire will produce dense black smoke. Exposure to decomposition products may cause a Health Hazard. Fire fighters should wear self-contained breathing apparatus.

Water mist may be used to cool closed containers to prevent pressure build-up and possible auto-ignition and explosion when exposed to extreme heat.

Do not weld, flame cut or expose to extreme heat or ignition sources, empty containers which have contained flammable products.

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

Emits toxic fumes when heated.

##### **HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:**

- Aluminum Oxide
- Carbon monoxide
- Sulfur oxides
- H, CO, CO<sub>2</sub>, SMOKE, METAL OXIDES
- Smoke
- Toxic Fumes
- Other Hazardous Materials

In case of inhalation of decomposition products released in a fire, symptoms may be delayed. Exposed persons may need to be kept under medical surveillance for at least 48 hours.

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**Section -6. ACCIDENTAL RELEASE MEASURES**

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Eliminate sources of ignition, ventilate the area. Avoid breathing vapors by using appropriate respiratory protective equipment. Refer to protective measures listed in sections 7 & 8.

Collect spill with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with local regulations (see section 13). Do not allow to enter drains or watercourses.

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

Avoid use of aromatic solvents. If the product enters drains or watercourses, inform authority with jurisdiction in accordance with state / local regulations.

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**Section -7. HANDLING AND STORAGE**

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**7.1 Handling:**

No smoking, eating and drinking during handling.

Keep containers tightly closed. Prior to movement containers which are opened should be carefully resealed.

Avoid skin and eye contact. Avoid inhalation in case of exposure to vapor and spray mist.

Handle and open containers with care to avoid spilling of contents. Never use pressure to empty; container is not a pressure vessel. Clean or discard contaminated clothing and shoes.

Preparation may charge electrostatically; always use grounding/ bonding/ earthing leads when transferring contents of containers. Operators should wear antistatic footwear and clothing, and floors should be electrically conductive.

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air, and avoid vapor concentration higher than the Occupational Exposure Limits.

Use in areas from which local sources of ignition have been excluded. Electrical equipment including lighting should be protected to the appropriate standard. Isolate from sources of heat, sparks and open flame. Non-sparking tools are recommended.

**7.2 Storage:**

Observe label precautions. Store between 32/F and 95/F ( 0/C and 35/C ) in a dry, clean and well ventilated place, away from sources of heat, ignition, and direct sunlight. For flash points below 23 °C store in an area constructed to the appropriate standard

**Aluminum powder reacts with water to generate hydrogen gas.**

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**8.1 Engineering measures:**

Avoid the inhalation of vapors, spray mist and particulates. Achieve by local exhaust ventilation providing good general extraction as to keep air-borne concentration below the Occupational Exposure Limits (OEL).

If local / area ventilation is not sufficient to comply with OEL, suitable (NIOSH) respiratory protection to be provided. Always provide suitable (NIOSH) respiratory protection when sanding, grinding or otherwise abrading cured material.

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**8.2 Exposure limits**

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**Work place exposure limits ( 8 hour )**

Substance	OSHA	ACGIH TWA
ALUMINUM POWDER/FLAKE 95% -98%	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

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### 8.3 Personal protection

All Personal Protective Equipment, including Respiratory Protection, used to control exposure to hazardous substances must be selected to meet the requirements of OSHA Regulations.

#### Respiratory protection :

Appropriate respiratory protection equipment should be selected according to the type of contaminants, following regulatory (OSHA / NIOSH) and manufacturers instructions including proper fitting of devices.

#### Hand protection :

For prolonged or repeated contact, recommend gloves type: polyvinyl alcohol, nitrile rubber, latex rubber (some people may exhibit sensitivity to Latex). Barrier creams may help to protect exposed areas of the skin. However, they should not be applied post exposure.

#### Eye protection :

Use safety glasses with side shields to protect against splashes. Face shields may also be worn.

#### Skin protection :

Protective clothing made of antistatic and fire resistant fibers. All parts of the body should be washed after contact. Use good hygiene and industrial practices, keep working clothes clean.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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| <ul style="list-style-type: none"><li>• Physical state at: 68 ° F (20 ° C) SILVERY FLAKE/POWDER</li><li>• Flash point: N/A</li><li>• Specific gravity at: 68 ° F (20 ° C) 2.7 g/cm<sup>3</sup></li><li>• Vapor Density: N/A</li><li>• Lower Explosive Limit (% vol.): 30</li><li>• Upper Explosive Limit (% vol.): N/A</li><li>• Miscibility in water at 20 ° C: INSOLUBLE</li></ul> | <ul style="list-style-type: none"><li>• Ph : 6.8</li><li>• % Volatile by Volume: 0.0</li><li>• Vapor pressure at: 68 ° F (20 ° C): N/A</li><li>• Color: SILVER</li><li>• Appearance: POWDER/FLAKE</li><li>• Odor: METALLIC ODOR</li><li>• Boiling Point: 2056 ° C</li></ul> |
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## 10. STABILITY AND REACTIVITY

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Stable under recommended storage and handling conditions (see SDS section 7).

May form combustible dusts. Provide adequate exhaust ventilation at all times.

Store in dry well ventilated areas in sealed containers. Keep away from all heat sources.

Take measures to avoid electrostatic charge.

Water and moisture sensitive.

Emits toxic fumes when heated.

#### HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:

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|--|--|---|
| <ul style="list-style-type: none"><li>• Aluminum Oxide</li><li>• Carbon monoxide</li><li>• Sulfur oxides</li></ul> | <ul style="list-style-type: none"><li>• H, CO, CO<sub>2</sub>, SMOKE, METAL OXIDES</li><li>• Toxic Fumes</li></ul> | <ul style="list-style-type: none"><li>• Smoke</li><li>• Other Hazardous Materials</li></ul> |
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In case of inhalation of decomposition products released in a fire, symptoms may be delayed. Exposed persons may need to be kept under medical surveillance for at least 48 hours.

**Aluminum powder reacts with water to generate hydrogen gas.**

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## 11. TOXICOLOGICAL INFORMATION

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There are no data available on the preparation itself. See (SDS Sections 3 and 15) for details.

Exposure to component solvents vapors at concentrations in excess of the stated Occupational Exposure Limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms and signs of overexposure include headache, dizziness, fatigue, muscular weakness, drowsiness, reduced fetal weight, increase in fetal deaths, skeletal malformations, and in extreme cases loss of consciousness. Repeated or prolonged contact with the preparation may cause Defatting of the skin resulting in non-allergic dermatitis and absorption through the skin.

The liquid splashed in the eyes causes serious eye irritation and damage.

Irritating to mouth, throat and stomach. Ingestion causes reduced fetal weight, increased fetal deaths and skeletal malformations

Acute Toxicity :

LD50 - Oral - Rat - >2000 mg/kg

LC50 - Inhalation - 4hour- >888 mg/l

Dermal - No Data Available

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## 12. ECOLOGICAL INFORMATION

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There is no data available on the preparation itself. Do not allow the product to enter drains or water ways. See (SDS Sections 3 and 15)

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

Empty containers and/or liners may contain material residue. Empty contaminated packagings thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations.

Sections 3 and 15)

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## 13. DISPOSAL CONSIDERATIONS

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Recommended incineration or land fill as hazardous waste per Federal, State and local regulations.

React with curing agent and dispose of as hazardous waste per Federal, State and local regulations. Recommended incineration or land fill.

Empty containers and/or liners may contain material residue. Empty contaminated packagings thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations.

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

**Aluminum powder reacts with water to generate hydrogen gas.**

**14. TRANSPORT INFORMATION**

DOT: § 172.101 HAZARDOUS MATERIALS TABLE

UN Number: UN 1309

Proper Shipping Name: ALUMINUM POWDER, COATED

Labels: FLAMMABLE SOLID

IATA:

UN Number: 1309

Proper Shipping Name: ALUMINUM POWDER, COATED

Labels: FLAMMABLE SOLID

Hazard Class: 4.1 Subclass: NO

Packaging Group: III

Passenger Air Packing Instruction : 309

Passenger aircraft: 60 Liter (16 gallon)

Cargo Air Packing Instruction : 310

Cargo aircraft only: 220 Liter (58 gallon)

Hazard Class: 4.1 Subclass: NO

Packaging Group: III

Limited Quantity: Passenger aircraft: 60 Liter (16 gallon)

Cargo aircraft only: 220 Liter (58 gallon)

Vessel stowage: A

ERG: 128

NMFC: 4620 SUB.5 – CL.60

Schedule B # 3506.91.0000

IMDG:

UN Number: 1309

Proper Shipping Name: ALUMINUM POWDER, COATED

Label: FLAMMABLE SOLID

Hazard Class: 4.1 Subclass: NO

Packaging Group: III

EMS No: F, E – S, D

**15. REGULATORY INFORMATION****US Regulations Federal**

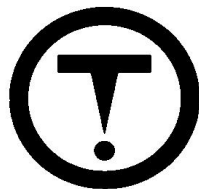
chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 (SARA)	Chemical Name	CAS No	Weight %	Threshold limit
	ALUMINUM (POWDER/FLAKE)	7429-90-5	95%-98%	unknown

All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Par. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST

**US Regulations State**

California Proposition 65 (Developmental – Female)	ALUMINUM POWDER/FLAKE	7429-90-5	95%-98%	unknown
Massachusetts	ALUMINUM POWDER/FLAKE	7429-90-5	95%-98%	unknown
New Jersey	ALUMINUM POWDER/FLAKE	7429-90-5	95%-98%	unknown
Pennsylvania	ALUMINUM POWDER/FLAKE	7429-90-5	95%-98%	unknown
Rhode Island	ALUMINUM POWDER/FLAKE	7429-90-5	95%-98%	unknown

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Class D - Poisonous and Infectious  
materials Division 2: Materials Causing  
Other Toxic Effects D2A  
ALUMINUM POWDER/FLAKE D2B  
CAS#7429-90-5

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR. Listed National Pollutant Release Inventory (NPRI): ALUMINUM POWDER/FLAKE  
CAS# 7429-90-5

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## 16. OTHER INFORMATION

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HEALTH	1	HEALTH	1	Customer and / or end user is responsible for determining PPE
FLAMMABILITY	3	FLAMMABILITY	3	
REACTIVITY	3	REACTIVITY	3	

### NFPA

### HMIS

**Aluminum powder reacts with water to generate hydrogen gas.**

Preparer: Flamemaster / Compliance Revision Date: January 2018 Conversion to ANSI format

Containers: plastic jars, metal cans  
cartridge kits

Maximum container size 50 Gallons / 190 Liters

#### Notice to reader:

**This SDS is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.**

**In all cases, the user must determine the applicability of all information and recommendations contained herein as well as the suitability of this product for their own particular needs or purposes.**

**This product may be hazardous and should always be used with care and discretion. Every effort has been made to describe all known hazards, but this in no way guarantees the above mentioned hazards are the only hazards present.**

**Flamemaster Corporation, its Affiliates and its Agents, shall in no way be held liable for any damages resulting from handling, using, storing, disposing of, or from contact with this product. User assumes all risk.**

End of Safety Data Sheet

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