

HMIS: H=1, F=0, R=0, PPE=G

MANUFACTURED FOR:  
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**MATERIAL SAFETY DATA SHEET**  
 for  
**COATINGS, RESINS, and RELATED MATERIALS**

**SECTION I - PRODUCT IDENTIFICATION**

Trade Name & Synonyms:  
 CHEMLON

Formula:  
 XP-1168-2 BLACK POWDER COATING

Emergency Contact: Chem-Trec 800-424-9300  
 24 Hours a Day

P.C. Number: XP1168-2

Date of Preparation: 16 November 2009

FAX: 610-286-3510

Supercedes: None

**IMPORTANT: BEFORE USING CHEMLON XP-1168-2 BLACK POWDER COATING,  
 HAVE ALL PROCESSING PERSONNEL READ THIS DOCUMENT!**

**SECTION II - HAZARDOUS INGREDIENTS AND OCCUPATIONAL EXPOSURE LIMITS**

<u>Chemical(s) with CAS RN and vapor pressure (if applicable)</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Manufacturer's Recommendation</u>
C.I. PIGMENT BLACK 28 68186-91-4	TWA = 5 mg/m3	TWA = 0.2 mg/m3	TWA = 3 mg/m3
MICA 12001-26-2	TWA = 20 mg/m3	TWA = 3 mg/m3	No recommendation
CALCIUM CARBONATE 471-34-1	TWA = 5 mg/m3	TWA = 3 mg/m3	No recommendation
CALCIUM MOLYBDATE 7789-82-4	TWA = 15 mg/m3	TWA = 10 mg/m3	No recommendation

**SECTION III - PHYSICAL DATA**

Appearance . . . . .	Black powder
Boiling point (range) . . .	Not Applicable (N/A) degrees C
Vapor density . . . . .	Not applicable
Evaporation rate . . . . .	Not applicable
Specific gravity (H2O = 1):	1.70
Percent volatile by volume:	0 %

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**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Lower Explosive Limit (%): 100.0

Flash point (Method Used): None (Setaflash)

Extinguishing Media:

This product will not burn. Use the recommended extinguishing agents for fighting surrounding fires.

Special Fire Fighting Procedures:

Use the appropriate techniques for fighting surrounding fires.

Unusual Fire and Explosion Hazards:

Toxic fumes will be emitted during combustion or thermal decomposition of this product.

**SECTION V - HEALTH HAZARD DATA**

Primary Route(s) of Entry and Exposure:

Inhalation: Yes      Skin absorption: No      Ingestion: Yes      Skin or eye contact: Yes

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA or ACGIH.

Chemical

None

Reference

Not applicable

Category

Not applicable

**Effects of Overexposure, C.I. PIGMENT BLACK 28:**

Inhalation -      Overexposure to this material may cause respiratory tract irritation.

Skin contact -      Overexposure to this compound may cause skin irritation.

Skin absorption -      No data found.

Eye contact -      Overexposure to this compound may cause eye irritation.

Ingestion -      No data found.

Systemic &  
other effects -      No data found.

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Supplemental health information - Some compounds of the metals in this pigment, copper and chromium III, have demonstrated various toxic properties. There is no evidence that this pigment has these toxic characteristics. The occupational exposure limits are as follows:

	OSHA/PEL	ACGIH TLV
Copper dust and mist	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Chromium III compounds	.5 mg/m <sup>3</sup>	.5 mg/m <sup>3</sup>

**Effects of Overexposure, MICA:**

Inhalation - Inhalation of mica may cause possible difficulty in breathing and a persistent cough.

Skin contact - No data found.

Skin absorption - No data found.

Eye contact - No data found.

Ingestion - No data found.

Systemic & other effects - Medical conditions generally aggravated by exposure to mica are none, other than those which could be aggravated by dust exposure, such as a respiratory impairment.

Supplemental health information - No data found.

**Effects of Overexposure, CALCIUM CARBONATE:**

Inhalation - Dust may cause irritation of the respiratory tract.

Skin contact - Not expected to be a health hazard.

Skin absorption - Not an expected route of exposure.

Eye contact - Dust may cause mechanical irritation of the eyes.

Ingestion - Non-toxic.

Systemic & other effects - No data found.

Supplemental health information - No data found.

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**Effects of Overexposure, CALCIUM MOLYBDATE:**

Inhalation - Exposure may cause irritation of the respiratory tract

Skin contact - Exposure may cause irritation of the skin.

Skin absorption - No data found.

Eye contact - It is an eye irritant.

Ingestion - May cause irritation.

Systemic &  
other effects - No data found.

Supplemental  
information - No data found.

**Emergency & First Aid Procedures:**

Inhalation - If product solids are inhaled either as dust or in the form of a spray mist, remove the person from exposure immediately. If breathing is difficult, irregular, or has stopped, start resuscitation.

Skin contact - In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.

Eye contact - In case of eye contact, flush the eyes with water for 15 minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. Have a physician examine the eyes.

Ingestion - If material is ingested, seek medical attention. If vomiting occurs, keep the head below the hips to prevent aspiration of liquid into the lungs.

**SECTION VI - REACTIVITY DATA**

**Stability:**

- stable

**Incompatibility (Materials to Avoid):**

- oxidizing materials
- strong bases
- amines

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Hazardous Decomposition Products:

- oxides of carbon
- oxides of silicon

Hazardous Polymerization:

- may occur

**SECTION VII - SPILL OR LEAK PROCEDURES**

Steps to be Taken in Case Material is Released or Spilled:

Spill supervisor - Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Keep nonessential personnel away from the contaminated area.

Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if the product has entered, sewers, watercourses, or extensive land areas.

If the product is in solid form, use a scoop, shovel, broom, or vacuum cleaner to recover the spilled material. (Vacuum cleaners should be suitable for use in an industrial environment, e.g., explosion proof, if conditions warrant.) Transfer the waste into a covered container.

Label the waste containers. Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

Waste Disposal Method:

As the US EPA, state, regional and other regulatory agencies may have jurisdiction over the disposal of your facility's hazardous waste, it is incumbent upon you, the waste generator, to learn of and satisfy all the requirements which affect you. Dispose of hazardous waste at a properly permitted disposal facility. Ensure conformity to all applicable waste disposal regulations.

The US EPA Hazardous Waste Numbers which follow are applicable to the unadulterated product if it enters the "waste stream." Refer to Title 40 of the Code of Federal Regulations, Part 261 (40 CFR 261). This part of the Code identifies wastes which are subject to regulation under various sections of the Code and which are subject to the notification requirements of Section 3010 of the Resource Conservation and Recovery Act (RCRA).

- None

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**SECTION VIII - SAFE HANDLING & USE INFORMATION**

Respiratory Protection:

Respiratory protection may not be needed if the local exhaust is sufficient to maintain levels of hazardous ingredients below occupational exposure limits. If needed, use a NIOSH/MSHA approved respirator equipped with high-efficiency, particulate air (HEPA) filters.

Do not use respirators beyond their capabilities. For emergencies and unknown concentrations, use supplied-air respiratory protection or a positive-pressure, self-contained, breathing apparatus (SCBA).

Ventilation:

Use only with adequate ventilation, i.e., ventilation in compliance with occupational exposure limits.

Local Exhaust:

Local exhaust is recommended to ensure adequate ventilation.

Mechanical (General):

Use good manufacturing practice.

Special:

Safety showers and eyewash facilities should be readily available to personnel who handle this material. Enforce "No Smoking" rules.

Protective Gloves:

Wear protective gloves to protect the skin from mechanical abrasion, defatting, etc. If product is in granular or powder form, leather or other nonpermeable gloves are recommended. If product is in liquid form, butyl rubber or neoprene gloves are recommended. Protective gloves should be inspected frequently and discarded when they exhibit cuts, tears, pinholes, or signs of excessive wear.

Eye Protection:

Wear splash goggles or safety glasses with side shields.

Other Protective Equipment:

Use protective clothing if deemed appropriate.

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SECTION IX - SPECIAL PRECAUTIONS

Precautions to be Taken When Handling and Storing:

Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust.

Keep containers closed when not in use. Do not handle or store material near heat, sparks, open flames, or other sources of ignition. Store at room temperatures, i.e., 40 to 95 F (4 to 35 C).

Other Precautions:

Good personal hygiene and good housekeeping are important. Wear fresh clothing daily. Contaminated clothes and shoes must not be worn home. Launder contaminated clothing before reuse. Remove contaminated shoes; clean and dry before reuse.

Do not smoke or eat in the work area. Thoroughly wash hands and face before eating. Take every precaution to avoid inhalation and ingestion of product residue.

Do not use compressed air to clean contaminated floors or equipment. Surfaces should be cleaned by vacuuming or wet scrubbing. Vacuum cleaners should be suitable for use in an industrial environment (explosion proof, if necessary) and equipped with high-efficiency, particulate air (HEPA) filters.

Avoid breathing product vapors, spray mist, and residue. Avoid breathing processing fumes. Avoid skin contact. Avoid eye contact. Avoid ingestion.

Spilled material may cause the floor or contaminated area to become slippery.

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**SECTION X - REGULATORY INFORMATION**

**FEDERAL REGULATIONS:**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CHEMICAL	CAS NUMBER	PERCENTAGE
CHROMIUM/COPPER/MANGANESE COMPOUND	68186-91-4	8.928200

TOXIC SUBSTANCES CONTROL ACT (TSCA): All chemicals in this product appear in the Toxic Substance Control Act Chemical Substance Inventory.

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