



MATERIAL SAFETY DATA SHEET

Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards

MSDS Revision: 1.2

MSDS Revision Date: 08/15/2004

1. PRODUCT IDENTIFICATION

1.1	Product Name: METRO METAL POWDERS
1.2	Chemical Name: POLY (ETHYL/METHYL) METHACRYLATE COPOLYMER
1.3	Synonyms: NA
1.4	Trade Names: CITY OF ANGELS (COPPER), CITY OF LIGHTS (SILVER), CITY OF PEACE (WHITE), SIN CITY (BLACK), GOLDEN CITY (GOLD), MELTING POT (BROWN)
1.5	Product Use: PROFESSIONAL OR SUNDRY USE ONLY
1.6	Manufacturer's Name: CREATIVE NAIL DESIGN, INC.
1.7	Manufacturer's Address: 1125 JOSHUA WAY VISTA, CA USA 92081
1.8	Emergency Phone: ROCKY MOUNTAIN POISON CONTROL CENTER: 303-623-5716
1.9	Business Phone: 800-833-NAIL (6245), 760-599-2900

2. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)					
					ACGIH		OSHA		OTHER	
					TLV ppm	STEL ppm	PEL ppm	STEL ppm		IDLH ppm
POLYETHYLMETHYL METHACRYLATE	9003-42-3	NA	NA	≤ 45.0	NE	NE	NE	NE	NE	
METHACRYLATE COPOLYMER	NA	NA	NA	≤ 45.0	NE	NE	NE	NE	NE	
BENZOYL PEROXIDE	94-36-0	DM8575000	202-327-6	≤ 1.0	(5)	NE	(5)	NE	NE	

ADDITIONAL INGREDIENTS:

CITY OF ANGELS (COPPER):										
POLYETHYLENE TEREPHTHALATE	25038-59-9	TR2725000	NA	≤ 15.0	NE	NE	NE	NE	NE	(5) AEI*
CITY OF LIGHTS (SILVER):										
POLYETHYLENE TEREPHTHALATE	25038-59-9	TR2725000	NA	≤ 15.0	NE	NE	NE	NE	NE	(5) AEI*
CITY OF PEACE (WHITE):										
MICA	12001-26-2	NA	310-127-6	≤ 15.0	(3)	NA	(3)	NA	NA	DUST
TITANIUM DIOXIDE	13463-67-7	XR2275000	236-675-5	≤ 2.0	(10)	NA	(15)	NA	NA	DUST
BORON NITRIDE	10043-11-5	ED7800000	233-136-6	≤ 2.0	(5)	NA	(10)	NA	NA	DUST
SIN CITY (BLACK):										
POLYETHYLENE TEREPHTHALATE	25038-59-9	TR2725000	NA	≤ 10.0	NE	NE	NE	NE	NE	(5) AEI*
COLORANT CI 77499	1309-74-1	NA	215-168-2	≤ 10.0	NE	NE	NE	NE	NE	
THE MELTING POT (BROWN):										
POLYETHYLENE TEREPHTHALATE	25038-59-9	TR2725000	NA	≤ 10.0	NE	NE	NE	NE	NE	(5) AEI*
MICA	12001-26-2	NA	310-127-6	≤ 10.0	(3)	NA	(3)	NA	NA	DUST
COLORANT CI 77499	1309-37-1	NA	215-168-2	≤ 5.0	NE	NE	NE	NE	NE	

OTHER COMPONENTS PRESENT IN LESS THAN 1% CONCENTRATION

BAL

THE REMAINING COMPONENTS DO NOT CONTRIBUTE ANY SIGNIFICANT ADDITIONAL HAZARDS

* DuPont Chemical Company

NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used
NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2003 format.



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3. HAZARD IDENTIFICATION

3.1	<p>Hazard Identification: Allergic contact dermatitis is possible with prolonged or repeated contact. The product is a fine powder, and may cause a slipping and falling hazard if spilled.</p>						
3.2	Routes of Entry:	Inhalation:	YES	Absorption:	NO	Ingestion:	YES
3.3	<p>Effects of Exposure: EYES: Possible irritation from dust. SKIN: Irritation. Allergic contact dermatitis is possible with prolonged or repeated contact. INGESTION: No exposure effects are reported. INHALATION: Considered a nuisance dust. May cause irritation of the mouth, nose, throat, and lungs.</p>						
3.4	<p>Symptoms of Overexposure: EYES: Redness & watering. SKIN: Redness, itching, drying of skin. INGESTION: No symptoms are expected. INHALATION: Upper respiratory irritation, including coughing & sneezing.</p>						
3.5	<p>Acute Health Effects: EYES: Possible irritation from dust. SKIN: Irritation. Allergic contact dermatitis is possible with prolonged or repeated contact. INGESTION: No exposure effects are reported. INHALATION: Considered a nuisance dust. May cause irritation of the mouth, nose, throat, and lungs.</p>						
3.6	<p>Chronic Health Effects: EYES: Possible irritation from dust. SKIN: Irritation. Allergic contact dermatitis is possible with prolonged or repeated contact. INGESTION: No exposure effects are reported. INHALATION: Considered a nuisance dust. May cause irritation of the mouth, nose, throat, and lungs.</p>						
3.7	<p>Target Organs: Eyes, skin and respiratory system.</p>						

4. FIRST AID MEASURES

4.1	<p>First Aid: EYES: Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek immediate medical attention. SKIN: Remove contaminated clothing and wash affected areas with soap and water. Wash all contaminated clothing thoroughly before reuse. If irritation persists, seek prompt medical attention. INGESTION: DO NOT INDUCE VOMITING. Contact Rocky Mountain Poison Control at 303-623-5716 or the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. INHALATION: Remove victim to fresh air at once. If breathing stops, perform artificial respiration. Seek prompt medical attention if adverse effects continue.</p>																
4.2	<p>Medical Conditions Aggravated by Exposure: Preclude from exposure those individuals that are susceptible to dermatitis, asthma or bronchitis.</p>					<table border="1"> <tr> <td>HEALTH</td> <td>1</td> </tr> <tr> <td>FLAMMABILITY</td> <td>1</td> </tr> <tr> <td>REACTIVITY</td> <td>2</td> </tr> <tr> <td>PROTECTIVE EQUIPMENT</td> <td>B</td> </tr> <tr> <td>EYES</td> <td>SKIN</td> </tr> </table>		HEALTH	1	FLAMMABILITY	1	REACTIVITY	2	PROTECTIVE EQUIPMENT	B	EYES	SKIN
HEALTH	1																
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5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method: 579 °F (304 °C) TCC
5.2	Autoignition Temperature: NA
5.3	Flammability Limits: Lower Explosive Limit (LEL): NA Upper Explosive Limit (UEL): NA
5.4	Fire & Explosion Hazards: Keep away from excessive heat, open flames, sparks, and other possible sources of ignition.
5.5	Extinguishing Methods: Carbon dioxide, dry chemical & water spray.
5.6	Firefighting Procedures: Keep containers cool until well after the fire is out. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters should wear full face, self-contained breathing apparatus (MSHA/NIOSH approved or the equivalent) and impervious protective clothing.



6. ACCIDENTAL RELEASE MEASURES

6.1	Spills: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For small spills (e.g., <1 gallon) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows). Remove spilled material with broom, vacuum or wet sponge. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. For spills ≥ 1 gallon, deny entry to all unprotected individuals. Remove spilled material with broom, vacuum (with high-efficiency particulate filter) or wet mops. Transfer product to containers for recovery or disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.
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7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices: Use eye protection when using this product. Wash hands thoroughly after using this product and before eating, drinking, or smoking.
7.2	Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Do not store in damaged or unmarked containers or storage devices. Keep containers securely closed when not in use.
7.3	Special Precautions: Empty containers may retain residual amounts of product. Readily available emergency fire, first aid, and spill response equipment and/or measures are recommended. The product is a fine powder, and may cause a slipping and falling hazard if spilled. Spilled product should be swept or vacuumed up immediately to prevent falls.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls: General mechanical ventilation (e.g., fans) and local exhaust ventilation is recommended for use with this product.
8.2	Respiratory Protection: Respirators are not required for use with this product. However, this product is a nuisance dust hazard. Product may cause irritation of the mouth, nose, throat, and lungs. Accordingly, a dust mask is suggested. A respiratory protection program that meets OSHA's 29 CFR §1910.134 and ANSI Z88.2 requirements must be followed whenever a respirator is used.
8.3	Eye Protection: As a minimum, safety glasses with side shields should be used when using this product.
8.4	Hand Protection: None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., ≥ 1 gallon), wear rubber or impervious plastic gloves.
8.5	Body Protection: No apron required when handling small quantities. When handling large quantities (e.g., ≥ 1 gallon), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.



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9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	NA
9.2	Boiling Point:	NA
9.3	Melting Point:	Approximately 200°C
9.4	Evaporation Rate:	NA
9.5	Vapor Pressure:	NA
9.6	Molecular Weight:	NA
9.7	Appearance & Color:	Metallic and colored powder with faint bland odor.
9.8	Odor Threshold:	ND
9.9	Solubility:	Insoluble
9.10	pH	NA
9.11	Viscosity:	NA
9.12	Other Information:	NA

10. STABILITY & REACTIVITY

10.1	Stability:	Stable under normal conditions of use (see section 7).
10.2	Hazardous Decomposition Products:	Oxides of carbon and nitrogen. May form shock, heat, and friction-sensitive by-products.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks, high heat (120°F) or other ignition sources, and proximity to incompatible substances.
10.5	Incompatible Substances:	ND

11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data:	This product has not been tested on animals to obtain toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. These data have not been presented in this document.
11.2	Acute Toxicity:	See section 3.5
11.3	Chronic Toxicity:	See section 3.6
11.4	Suspected Carcinogen:	NE
11.5	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to produce teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to produce reproductive effects in humans.
11.6	Irritancy of Product:	See Section 3.3
11.7	Biological Exposure Indices:	NE
11.8	Physician Recommendations:	Treat symptomatically.

12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	This product will slowly volatilize from soil. Components of this product will slowly decompose into organic compounds.
12.2	Effects on Plants & Animals:	There is no specific data available for this product.
12.3	Effects on Aquatic Life:	There is no specific data available for this product.

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13. DISPOSAL CONSIDERATIONS



13.1	Waste Disposal: Dispose of in accordance with all federal, state, and local regulations.
13.2	Special Considerations: If the material is unsuitable for recycling or reclamation, enclosed-controlled incineration is recommended unless otherwise prohibited by local ordinance.

14. TRANSPORTATION INFORMATION

The basic description (proper shipping name, hazard class & division, ID Number, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

14.1	49 CFR (GND): NOT REGULATED	
14.2	IATA (AIR): NOT REGULATED	
14.3	IMDG (OCN): NOT REGULATED	
14.4	TDGR (Canadian GND): NOT REGULATED	
14.5	ADR/RID (EU): NOT REGULATED	

15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: This product does not contain any substances with SARA reporting requirements.	
15.2	SARA Threshold Planning Quantity: This product does not contain any substances with a SARA threshold planning quantity.	
15.3	TSCA Inventory Status: All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.	
15.4	CERCLA Reportable Quantity (RQ): This product does not contain any substances with a CERCLA reportable quantity.	
15.5	Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR Subchapter G, (Cosmetics).	
15.6	Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.	
15.7	State Regulatory Information: No component if this mixture is listed in the California Proposition 65 Lists.	
15.8	67/548/EEC (European Union) Requirements: The primary component of this product is not listed in Annex I of EU Directive 67/548/EEC.	



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16. OTHER INFORMATION

16.1	Other Information: Precisely follow directions and MSDS (available through your supplier) for use. Avoid skin and eye contact. Keep out of reach of children. If redness or other signs of adverse reaction occur, discontinue use immediately and thoroughly rinse affected area.
16.2	Terms & Definitions: See page 7 of this MSDS.
16.3	Disclaimer: This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Creative Nail Design's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.
16.4	Prepared for: Creative Nail Design, Inc. 1125 Joshua Way Vista, CA 92081 800-833-NAIL (6245) phone 760-599-4005 fax http://www.creativenaildesign.com/ 
16.5	Prepared by: ShipMate, Inc. 18436 Hawthorne Blvd., Suite 201 Torrance, CA 90504 310-370-3600 phone 310-370-5700 fax http://www.shipmate.com/ 

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

CAS No. Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.
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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:

A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or S.O.P. for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Eye Protection	Gloves
Boots	Synthetic Apron	Full Suit	Dust Respirator
Vapor Respirator	Dust & Vapor Respirator	Full Face Respirator	Airline Hood/Mask or SCBA

Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

OTHER STANDARD ABBREVIATIONS:

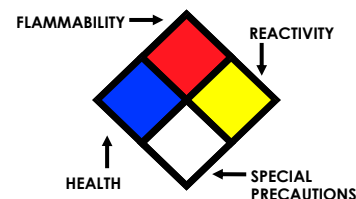
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
-W	Use No Water
OX	Oxidizer



TOXICOLOGICAL INFORMATION:

LD₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD₁₀	Lowest dose to cause a symptom
TCLO	Lowest concentration to cause a symptom
TD₁₀, LD₁₀, & LD₀ or TC, TC₀, LC₁₀, & LC₀	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL_m	Median threshold limit
log K_{ow} or log K_{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)
CPR	Canadian Controlled Product Regulations

EC INFORMATION:

C	E	F	N	O	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful