

Safety Data Sheet

Metal Flake Series

SDS No. 15077.0

Date of Preparation: 11/20/14

Revision: 11/20/14

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Metal Flake Series

Synonyms: MFL Series

General Use: Decorative enhancement

Manufacturer: The R. J. Marshall Company

26776 W. 12 Mile Road

Southfield, MI 48034-7807

Phone: (248) 353-4100, Fax: (248) 948-6460

Emergency Phone: (800) 424-9300

Date Revised: 11/20/14

Preparer: Stephanie Nichols

Section 2 - Hazards Identification

Signal Word: None

Hazard Statements: None

Symbols: None

Precautionary Statements:

P280: Wear protective gloves/protective clothing/eye protection

HMIS

H 1

F 0

R 0

PPE† B

†Sec. 8

Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS Number	Percent by Weight
Polyethylene terephthalate	25038-59-9	93
Polyurethan-33	125826-44-0	6.5
Aluminum	7429-90-5	0.5

Section 4 - First Aid Measures

Inhalation: Seek medical attention.

Eye Contact: Flush immediately with water. If irritation persists, consult a physician.

Skin Contact: Wash skin thoroughly with soap and water. Consult a physician if irritation persists.

Ingestion: Seek medical attention.

Immediate medical attention and special treatment needed: Treat according to symptoms.

Section 5 - Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, carbon dioxide foam, or other dry chemical.

Unsuitable Extinguishing Media: None

Unusual Fire or Explosion Hazards: None known.

Hazardous Combustion Products: Oxides of carbon.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear protective work clothing, gloves, and safety goggles.

Methods and materials for containment and clean up: Do not flush into sewers or introduce into waterways. Industrial container as per local ordinance. Dispose of material as per local ordinance.

Section 7 - Handling and Storage

Precautions for safe handling: Avoid generating dust during handling. Wear protective work clothing, gloves, and safety goggles.

Storage Requirements: Store in cool, dry area, with adequate ventilation.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Dust mask

Protective Clothing/Equipment: Wear long sleeved work clothing and gloves.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Polyethylene terephthalate	none estab.	none estab.	none estab.	none estab.
Polyurethane-33	none estab.	none estab.	none estab.	none estab.
Aluminum	15 mg/m ³ total 15 mg/m ³ respirable	none estab.	1 mg/m ³ respirable	none estab.

Section 9 - Physical and Chemical Properties

Appearance: flakes, various colors

Odor: faint

Odor Threshold: no data

pH: no data

Melting Point/Freezing Point: 275F (135C)

Initial Boiling Point and range: no data

Flash Point: no data

Flash Point Method: no data

Evaporation Rate: no data

Flammability: Non-flammable.

Upper/lower flammability or explosive limits: no data

Vapor Pressure: no data

Vapor Density (Air=1): no data

Relative Density: 1.4

Water Solubility: limited

Other Solubilities: no data

Partition coefficient: n-octanol/water: no data

Auto-ignition Temperature: Not determined

Decomposition Temperature: 500F (260C)

Viscosity: no data

Specific Gravity: 1.4

Section 10 - Stability and Reactivity

Reactivity: Hazardous polymerization cannot occur.

Chemical Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions:

Conditions to Avoid: Excessive heat or flame.

Incompatible materials: Strong oxidizing agents.

Hazardous Decomposition Products: Noxious vapors, oxides of carbon.

Section 11- Toxicological Information

Primary Entry Routes: Skin, Inhalation, and Eye.
Acute Toxicity: No data
Oral: No data
Dermal: Irritant
Eye: Irritant
Respiratory: Irritant; decomposition vapors may cause adverse effects.
Dermal Sensitization: No data
Mutagenicity: No data
Reproductive Toxicity: No data
Specific Organ Toxicity:
 Single Exposure: No data
 Repeated Exposure: No data
Aspiration Hazard: No data
Medical Conditions Aggravated by Long-Term Exposure: n/a
Chronic Effects: None known.
Carcinogenicity: This product is not considered carcinogenic by OSHA, IARC, NTP, or ACGIH.

Section 12 - Ecological Information

Ecotoxicity: No data
Persistence and degradability: No data
Bioaccumulative potential: No data
Mobility in soil: No data
Other: Not expected to produce adverse environmental effects.

Section 13 - Disposal Considerations

Disposal: Recycle if possible or landfill. This substance is inert and does not require special disposal methods. Follow applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101): This product is not classified as dangerous under the transport regulations for road, rail, sea, or air transport.
UN number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group; if applicable: Not applicable
Environmental hazards: Not applicable
Transport in bulk: Not applicable
Special precautions: None

Section 15 - Regulatory Information

EPA Regulations:
RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)
RCRA Hazardous Waste Classification: Not classified
CERCLA Hazardous Substance (40 CFR 302.4) Not listed
SARA Toxic Chemical (40 CFR 372.65): Not listed
SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed

OSHA Regulations:
Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

TSCA

This substance or all of its components are on the Chemical Substances Inventory of the Toxic Substance Control Act (TSCA Inventory [USA]). Please note that this product is not subject to any legal reporting requirements under these acts.

INTERNATIONAL REGULATIONS

Canada: Listed on DSL

China: Listed on IECSC

Europe: Listed on EINECS

Japan: Listed on ENCS

Korea: Listed on KECI

Taiwan: Listed on NECI

Australia: Listed on AICS

New Zealand: Listed on NZIoC

Risk Phrases: R22: Harmful if swallowed:

R36/37: Irritating to eyes and respiratory system.

Safety Phrases: S20: When handling do not eat or drink.

S22: Do not breathe dust.

S25: Avoid contact with eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Section 16 - Other Information**Prepared By:** Stephanie Nichols**Revision Notes:** original 11/20/14**Product Grades Available from the R. J. Marshall Company** (this list may be incomplete):

MFLCHROME	MFLCOPPER
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