

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER / SUPPLIER

Roth Metal Flake
5660 Boscell Common
Fremont, CA 94538

Telephone: (415) 663-5253

PRODUCT NAME: METAL FLAKE - SILVER & COLORS - METALLIZED POLYESTER
CHEMICAL NAME: COATED ALUMINUM METALLIZED POLYETHYLENE TEREPHTHALATE
CAS REGISTRY NO: N/A
DEPARTMENT OF TRANSPORTATION HAZARD CLASS: NOT REGULATED
SHIPPING NAME: N/A

2. HAZARDS IDENTIFICATION

HMIS Hazard Ratings: Health – 0, Flammability – 1, Chemical Reactivity – 0.
NFPA Hazard Ratings: Health – 0, Flammability – 1, Chemical Reactivity – 0.

NOTE: HMIS and NFPA ratings are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.

No Classification and labeling required (GHS-US)

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPOSITION	APPROX. WT. %	CAS REG. NO.
POLYETHYLENE TEREPHTHALATE FILM	95.4 – 99.8	25038-59-9
ALUMINUM	0.1	7429-90-5
POLYURETHANE COATING	0 - 3.2	68258-82-2
COLORANTS	0 - 1.3	Various

No Classification and labeling under EU directives.

4. FIRST AID MEASURES

INGESTION (SWALLOWING): Not a likely route of exposure.

INHALATION (BREATHING): Not a route of exposure. If exposed to fume from overheating or combustion, remove to fresh air.

SKIN CONTACT: Not a skin irritant.

EYE CONTACT: Irrigate immediately with water for five minutes. Mechanical effects only.

5. FIRE FIGHTING MEASURES

FLASH POINT: N/A

FLASH IGNITION TEMP: 497 DEGREES C METHOD: UL94V-2

FIRE AND EXPLOSION HAZARDS: Combustion may produce carbon monoxide.

EXTINGUISHING MEDIA: Water, carbon dioxide, foam, dry chemicals.

SPECIAL FIRE FIGHTING INSTRUCTIONS: Use self contained, positive pressure breathing apparatus in any closed space.

LOWER FLAMMABLE LIMIT: NOT ESTABLISHED

UPPER FLAMMABLE LIMIT: NOT ESTABLISHED

EXPLOSION DATA:

IMPACT SENSITIVITY: NOT SENSITIVE TO MECHANICAL IMPACT

STATIC DISCHARGE: NOT SENSITIVE TO STATIC DISCHARGE

6. ACCIDENTAL RELEASE MEASURES

Sweep or gather up material and place in proper container for disposal or recovery.

7. HANDLING AND STORAGE

HANDLING: No special precautionary measures should be needed under anticipated conditions of use. Minimize dust generation and accumulation. Refer to NFPA Pamphlet No. 654, "Prevention of fire and dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries."

STORAGE: Store away from excessive heat and sources of ignition. No other precautionary measures should be needed under anticipated conditions of use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT INFORMATION:

MATERIAL	CAS	%	OSHA PEL	TLV (TWA)
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NONE	N/A	N/A	N/A	N/A
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IS ANY CHEMICAL PRESENT IN THIS PRODUCT AT A CONCENTRATION OF 0/1% OR MORE CLASSIFIED AS A CARCINOGEN BY LARC, NTP OR OSHA?

YES/NO NO

VENTILATION: Good general ventilation should be used.

EYE PROTECTION: Use safety glasses.

SKIN PROTECTION: Wear cotton, canvas or leather gloves.

RESPIRATORY: When dust or powder from secondary operations is not adequately controlled, use respirator approved for protection from dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	GLITTER
COLOR:	VARIOUS COLORS
ODOR:	MILD ODOR
BOILING POINT:	NOT APPLICABLE
MELTING POINT:	THIS PRODUCT DOES NOT EXHIBIT A SHARP MELTING POINT, BUT SOFTENS GRADUALLY OVER A WIDE TEMPERATURE RANGE.
VAPOR PRESSURE:	NEGLIGIBLE
VAPOR DENSITY (AIR = 1):	NOT APPLICABLE
SPECIFIC GRAVITY (WATER = 1):	1.4
WATER SOLUBILITY:	INSOLUBLE
% VOLATILES:	NEGLIGIBLE
pH:	NOT APPLICABLE
EVAPORATION RATE:	NOT APPLICABLE

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Polyesters are hydrolyzed by strong acid and bases and by water at high temperatures. Acetaldehyde and small amounts of carbon dioxide and carbon monoxide may be formed.

MATERIALS TO AVOID: Strong acids and bases.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Incomplete combustion may produce carbon monoxide, acrolein, and aldehydes.

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS OF EXPOSURE:

INGESTION (SWALLOWING): Low ingestion hazard.

INHALATION (BREATHING): Not volatile, irritating vapors may be released at temperatures above 235 degrees C.

SKIN CONTACT: Not a skin irritant.

EYE CONTACT: Not a likely route of exposure.

CHRONIC EFFECTS OF EXPOSURE: None known.

12. ECOLOGICAL INFORMATION

Not expected to present any adverse environmental effects.

13. DISPOSAL INFORMATION

Product is not a RCRA hazardous waste. Landfill or incinerate in accordance with federal, state or local requirements.

14. TRANSPORTATION INFORMATION

US DOT HAZARD CLASSIFICATION: Not Regulated.

15. REGULATORY INFORMATION

OSHA hazardous chemical(s) according to 29 CFR 1910.1200: None.

WHMIS (Canada) Status: Not a controlled product.

WHMIS (Canada) Ingredients Disclosure List: None.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of SARA of 1986 and 40CFR 372: None.

SARA Sections 311 and 312 hazard classification(s): N/A.

US Toxic Substances Control Act (TSCA): All Components of this product are listed or are excluded from listing on the TSCA Chemical Substance Inventory.

Canadian Substances List: All Components of this product are listed in the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

Material(s) known to the State of California to cause cancer: None

Material(s) known to the State of California to cause adverse reproductive effects: None

Massachusetts Substance List: None

New Jersey Workplace Hazardous Substance List: None

Pennsylvania Hazardous Substance List: None

No Classification and labeling under EU directives.

16. OTHER INFORMATION

The above information and recommendations are believed accurate and reliable. The GIROTH METAL FLAKE makes no warranty of any kind, either express or implied, including merchantability and fitness. Users should consider these data only as a supplement to other information available from all sources, and should incorporate these into programs for the proper use and disposal of these materials and the safety and health of employees and customers. No Classification and labeling under EU directives.