

MATERIAL SAFETY DATA SHEET

NFPA Classification:

Health: 0
Flammability: 0
Instability: 0
Special Hazards:

HMIS Classification

Health: 0
Flammability: 0
Reactivity: 0
Personal Protection: E

SECTION I – PRODUCT IDENTIFICATION

PRODUCT NAME: GLMP-0079 Silver Mica

DISTRIBUTED BY: GOLD LEAF AND METALLIC POWDERS
ADDRESS: 6001 Santa Monica Boulevard
Los Angeles, CA 90038

INFORMATION TEL.: (323) 769-4888

EMERGENCY TEL.: Call CHEMTREC (24 hours)
1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands)
1-703-527-3887 (Outside Above Area)

SECTION II – INGREDIENT INFORMATION

Ingredient CAS Number	Weight in Product %	Notes
Tin Oxide 18282-10-5	0.1 - 0.5	none
Graphite 7782-42-5	2.0 - 4.0	none
Mica 12001-26-2	64.0 - 76.0	none
Titanium Dioxide(rutile) 1317-80-2	22.0 - 31.0	none

SECTION III – HAZARDS IDENTIFICATION

Emergency Overview

Color: Silver
Form: Powder
Odor: Odorless
Flash Point, °C: Not Applicable

Most important Hazard: Prolonged or repeated exposure may cause lung damage.

Potential Health Effects:

Inhalation: May cause irritation of the respiratory tract. Prolonged or repeated exposure causes lung damage.

Ingestion: No adverse health effects are expected from swallowing.

Skin Contact: May cause skin irritation.

Eye Contact: Dust may cause irritation and inflammation.

Carcinogenicity

Ingredient CAS Number	Weight in Product %	NTP (Y/N)	IARC (See Notes)	OSHA (Y/N)	ACGIH (See Notes)
Tin Oxide 18282-10-5	0.1 - 0.5	N	N	N	N
Graphite 7782-42-5	2.0 - 4.0	N	N	N	N
Mica 12001-26-2	64.0 - 76.0	N	N	N	N
Titanium Dioxide(rutile) 1317-80-2	22.0 - 31.0	N	N3	N	N

Notes:

IARC: Y1 = Carcinogenic to Humans; Y2A = Probably carcinogenic to humans; Y2B = Possibly carcinogenic to humans; N3 = Not classifiable as to is carcinogenicity; N = Not studied or probably not carcinogenic.

ACGIH: A1 = Confirmed human carcinogen; A2 = Suspected human carcinogen; A3 = Confirmed animal carcinogen; A4 = Not Classifiable as a human carcinogen; A5 = Not suspected as a human carcinogen; N = Not studied.

Chronic Health Hazards: Prolonged or repeated exposure to dust may cause pulmonary problems.

Aggravated Medical Conditions: Pulmonary Disorders. Allergies.

SECTION IV – FIRST AID MEASURES

Inhalation: Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

Ingestion: If large quantities are ingested, seek medical advice. Not a hazard under normal conditions.

Skin Contact: Wash with soap and water. Get medical attention if irritation persists.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

SECTION V – FIRE FIGHTING MEASURES

Flash Point °C: Not Applicable

Autoignition Temperature °C: Not Applicable

Lower Explosive Limit, %: Not Applicable

Upper Explosive Limit, %: Not Applicable

Extinguishing Media: None - does not burn. Use extinguishing media appropriate for surrounding fire.

Unusual Fire and Explosion Hazards Not a fire or explosion hazard.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Spill Procedures: Scoop up or vacuum into a container for reclamation or disposal.

SECTION VII – HANDLING AND STORAGE

- Store in cool dry place
- Material may be slippery when wet
- Avoid breathing dust
- Wash thoroughly after handling
- Avoid contact with eyes
- Used only with adequate ventilation

Revised Date: Oct. 17, 2006

SECTION VIII – EXPOSURE CONTROL/ PERSONAL PROTECTION

Ingredient CAS Number	Weight in Product %	OSHA PEL	ACGIH TLV
Tin Oxide 18282-10-5	0.1 - 0.5	2 mg/m3 (as Sn)	2 mg/m3 (as Sn)
Graphite 7782-42-5	2.0 - 4.0	15 mg/m3 (total dust) 5mg/m3 (repirable fraction)	2 mg/m3 (respirable dust)
Mica 12001-26-2	64.0 - 76.0	20 mppcf	3 mg/m3 (respirable fraction)
Titanium Dioxide(rutile) 1317-80-2	22.0 - 31.0	10 mg/m3 (total dust) 5mg/m3 (repirable fraction)	10 mg/m3 (respirable fraction)

Unless otherwise noted, all values are reported as 8-hour Time-Weighted Averages (TWAs) and total dust (particulates only)
All ACGIH TLV's refer to the 2006 standards. Unless otherwise noted, all OSHA PELs refer to 29 CFR Part 1910 Air
Contaminants: Final Rule, June 30, 1993.

Personal Protective Equipment: Safety glasses with side shields.

Respiratory Protection: Use a NIOSH/MSHA approved respirator as necessary to protect from: dust. If respiratory protection is used, follow all requirements for respiratory programs set forth in OSHA regulations (29 CFR 1910.134).

Ventilation: General ventilation. Local exhaust ventilation is recommended to control exposures to within applicable limits.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Powder	Bulk Density:	17.6g/100 cc
Color:	Silver	Specific Gravity:	3.1
Odor:	Odorless	Solubility (in water)	Insoluble
Melting Point, °C:	Decomposes	pH:	7.0 - 11.0(4% H2O)
Density:	3.1 Kg/L		

SECTION X – STABILITY AND REACTIVITY

Stability Data:	Stable
Conditions/Hazards to Avoid:	None known.
Incompatibility (Materials to Avoid):	None known.
Hazardous Decomposition Products:	None known.
Polymerization:	Will not occur.
Polymerization - Avoid:	None known.

SECTION XI – TOXICOLOGY INFORMATION

Information on Product:
Information on Components:

Ingredient	Weight in Product %	Acute toxicity Oral	Acute Toxicity Inhalation	Acute Toxicity Dermal	Acute Toxicity Other
Tin Oxide 18282-10-5	0.1 - 0.5	> 20 g/kg (rat)	Not Available	Not Available	Not Available
Graphite 7782-42-5	2.0 - 4.0	Not Available	Not Available	Not Available	Not Available
Mica 12001-26-2	64.0 - 76.0	Not Available	Not Available	Not Available	Not Available
Titanium Dioxide(rutile) 1317-80-2	22.0 - 31.0	Not Available	Not Available	Not Available	Not Available

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SECTION XII - ECOLOGICAL INFORMATION

Information on Product:

Environmental Fate: No data available

Ecotoxicological Inform: No data available

SECTION XIII – DISPOSAL CONSIDERATION

US EPA Waste Number Not Regulated

Disposal of waste Method This product, if disposed as received, is a non-hazardous waste. Local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

SECTION XIV – TRANSPORT INFORMATION

International Transport Regulations:

ICAO Class: Not Regulated

IMO Class: Not Regulated

US Transportation Regulations:

DOT Classification: Not Regulated

Canadian Transportation of Dangerous Goods (TDG):

TGD Classification: Not Regulated

SECTION XV – REGULATORY INFORMATION

United States: This product or its ingredients are listed on or compliant with the TSCA Inventory.

Canda: This product or its ingredients are listed on or compliant with the DSL.

Europe: This product or its ingredients are listed on or compliant with the EINECS.

Japan: This product or its ingredients are listed on or compliant with the MITI.

Australia: This product or its ingredients are listed on or compliant with the AICS.

Korea: This product or its ingredients are listed on or compliant with the ECL.

Philippines: This product or its ingredients are listed on or compliant with the PICCS.

China: This product or its ingredients are listed on or compliant with the IECSC.

US Federal Regulations:

Ingredient CAS Number	Weight in Product %	Subject to SARA 313 Reporting
Tin Oxide 18282-10-5	0.1 - 0.5	No
Graphite 7782-42-5	2.0 - 4.0	No
Mica 12001-26-2	64.0 - 76.0	No
Titanuim Dioxide(rutile) 1317-80-2	22.0 - 31.0	No

SARA 311/312 Hazard Categories: Acute Health Hazard

CAA 602 Ozone Depleting Substances (ODS):

This product contains nor is manufactured with an ozone depeleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82

Revised Date: Oct. 17, 2006

VOC None

US State Regulations:

VOC None

Canadian Regulations:

WHMIS Classification:

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*. Not Regulated.

SECTION XVI – OTHER INFORMATION

Revision number: 4

Section(s) Revised in this Version: Section 1: Chemical Product and Company Identification
Section 16: Other information

Prepared by: Corporate Environmental Health & Safety Group

Important: While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only because many factors may affect processing or application/use, we recommend that you make test to determine the suitability of a product for your particular purpose prior to use. no warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or desighns provided be considered a part of our terms and conditions of sale. Further you expressly understand and agree that the descriptions, designs, data and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk. End of data sheet.