



The Chemical Company

Material Safety Data Sheet

MSDS Code: G003
Gemtone® Jade

NFPA Classification:

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

HMIS Classification:

Health: 0
 Flammability: 0
 Physical Hazard: 0
 Personal Protection: E

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name: Chemical Mixture
 Product Use: Colorant.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient CAS Number	Weight in Percent (%)	Notes
Titanium Dioxide 13463-67-7	44.0 - 53.0	None.
Chromium Oxide [Cr2O3] 1308-38-9	1.0 - 5.0	None.
Mica 12001-26-2	37.0 - 54.0	None.
Iron Oxide - Fe2O3 1309-37-1	1.0 - 5.0	None.

3. HAZARDS IDENTIFICATION

Emergency Overview:
 Color: Green

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

Most Important Hazards: Prolonged or repeated exposure may cause lung damage.

Potential Health Effects:

Inhalation: Prolonged or repeated exposure causes lung damage. May cause irritation of the respiratory tract.
Ingestion: May cause irritation of the gastrointestinal tract.
Skin Contact: May cause skin irritation.
Eye Contact: May cause eye irritation. May cause pain and tearing.

Carcinogenicity:

Ingredient CAS Number	Weight in Percent (%)	NTP (Y/N)	IARC (See Notes)	OSHA (Y/N)	ACGIH (See Notes)
Titanium Dioxide 13463-67-7	44.0 - 53.0	N	N3	N	A4
Chromium Oxide [Cr2O3] 1308-38-9	1.0 - 5.0	N	N3	N	A4
Mica 12001-26-2	37.0 - 54.0	N	N	N	N
Iron Oxide - Fe2O3 1309-37-1	1.0 - 5.0	N	N	N	A4

Notes:

IARC: Y1=Carcinogenic to humans; Y2A=Probably carcinogenic to humans; Y2B=Possibly carcinogenic to humans; N3=Not classifiable as to its 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. May cause pulmonary fibrosis. Prolonged or repeated skin contact may produce severe irritation or dermatitis.

Aggravated Medical Conditions: Pulmonary disorders. Allergies.

4 - 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 use 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.

5. 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.

Fire Fighting Procedures: Positive pressure, self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None known.

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

- Material may be slippery when wet.
- Avoid breathing dust.
- Wash thoroughly after handling.
- Avoid contact with eyes.
- Use only with adequate ventilation.
- Store in a cool dry place.
- Wear suitable eye protection.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient CAS Number	Weight in Percent (%)	OSHA PEL	ACGIH TLV
Titanium Dioxide 13463-67-7	44.0 - 53.0	15 mg/m ³ (Total dust)	10 mg/m ³ (Total dust)
Chromium Oxide [Cr ₂ O ₃] 1308-38-9	1.0 - 5.0	0.5 mg/m ³ (as Cr)	0.5 mg/m ³ (as Cr)
Mica 12001-26-2	37.0 - 54.0	20 mppcf	3 mg/m ³ (Respirable fraction)
Iron Oxide - Fe ₂ O ₃ 1309-37-1	1.0 - 5.0	10 mg/m ³ (as Fe, total particulate)	5 mg/m ³ (Respirable fraction)

Unless otherwise noted, all values are reported as 8-hour Time-Weighted Averages (TWAs) and total dust (particulates only). All ACGIH TLVs 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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Powder
Color: Green
Odor: Odorless

Boiling Point, °C:
Melting Point, °C: Decomposes
Bulk Density: 3.2Kg/L
Vapor Pressure: 32.0g/100 cc
Specific Gravity: Not Applicable
Solubility (in water): 3.2
pH: Insoluble
 6.0 - 11.0(4% H2O)

10. STABILITY AND REACTIVITY

Stability Data: Stable

Conditions/Hazards to Avoid: None anticipated

Incompatibility (Materials to Avoid): Glycerol.

Hazardous Decomposition Products: None known.

Polymerization: Will not occur.

Polymerization - Avoid: None known.

11. TOXICOLOGICAL INFORMATION

Information on Product:

Information on Components:

Ingredient CAS Number	Weight in Percent (%)	Acute Toxicity - Oral	Acute Toxicity - Inhalation	Acute Toxicity - Dermal	Acute Toxicity - Other
Titanium Dioxide 13463-67-7	44.0 - 53.0	> 5,000 mg/kg (rat)	Not Available	Not Available	Not Available
Chromium Oxide [Cr2O3] 1308-38-9	1.0 - 5.0	Not Available	Not Available	Not Available	Not Available
Mica 12001-26-2	37.0 - 54.0	Not Available	Not Available	Not Available	Not Available
Iron Oxide - Fe2O3 1309-37-1	1.0 - 5.0	Not Available	Not Available	Not Available	Not Available

12. ECOLOGICAL INFORMATION

Information on Product:

Environmental Fate: No data available.
Ecotoxicological Information: No data available.

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

International Transport Regulations:

ICAO Class: Not Regulated

IMO Class: Not Regulated

US Transportation Regulations:

DOT Classification: Not Regulated

Proper Shipping Name: Not Regulated

Canadian Transportation of Dangerous Goods (TDG):

TDG Classification: Not Regulated

15. REGULATORY INFORMATION

International Inventories:

United States: This product or its ingredients are listed on or compliant with the TSCA Inventory.
Canada: 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 EINECS.
Japan: This product or its ingredients are listed on or compliant with MITI.
Australia: This product or its ingredients are listed on or compliant with 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 PICCS.
China: This product or its ingredients are listed on or compliant with the IECSC.

US Federal Regulations:

Ingredient CAS Number	Weight in Percent (%)	Subject to SARA 313 Reporting
Titanium Dioxide 13463-67-7	44.0 - 53.0	No
Chromium Oxide [Cr ₂ O ₃] 1308-38-9	1.0 - 5.0	Yes
Mica 12001-26-2	37.0 - 54.0	No
Iron Oxide - Fe ₂ O ₃ 1309-37-1	1.0 - 5.0	No

SARA 311/ 312 Hazard Categories:
Acute Health Hazard

CAA 602 Ozone Depleting Substances (ODS):
This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

VOC Content: None

US State Regulations:

VOC Content (CARB): None

Canadian Regulations:
WHMIS Classification:
Not Regulated

16. OTHER INFORMATION

Revision number: 2

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

Prepared By: Corporate Environmental Health & Safety Group

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