

GEMTONE RUBY

Revision Date: 10/14/05

NFPA Classification:

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

HMIS Classification:

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

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name:	Chemical Mixture
Product Use:	Colorant
Supplier:	TKB Trading, LLC 356 24 th Street Oakland, CA 94612 510-451-9011 fax 510-451-9044

For chemical emergency call CHEMTREC (24 hours) 1-800-424-9300

2. COMPOSITION AND INFORMATION ON INGREDIENTS
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<u>Ingredient</u>	<u>Weight In Product (%)</u>	<u>Notes</u>
Mica 12001-26-2	44.0 - 65.0	None.
Titanium Dioxide 13463-67-7	25.0 - 36.0	None.
Iron oxide - Fe2O3 1309-37-1	10.0 - 17.0	None.
Carmine	0.5 - 2.5	None.

3. HAZARDS IDENTIFICATION

Emergency Overview:

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

Most Important Hazards: 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:

<u>Ingredient</u>	<u>Weight In Product (%)</u>	<u>NTP (Y/N)</u>	<u>IARC (See Notes)</u>	<u>OSHA (Y/N)</u>	<u>ACGIH (See Notes)</u>
Mica 12001-26-2	44.0 - 65.0	N	N	N	N
Titanium Dioxide 13463-67-7	25.0 - 36.0	N	N3	N	A4
Iron oxide - Fe2O3 1309-37-1	10.0 - 17.0	N	N	N	A4
Carmine	0.5 - 2.5	N	N	N	N

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.

Aggravated Medical Conditions: Pulmonary disorders. Allergies.

4. FIRST AID MEASURES

Inhalation:	Move person to fresh air. Aid in breathing. 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, Celcius:	Not Applicable
Autoignition Temperature:	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 Procedure:	Positive pressure, self-contained breathing apparatus.
Unusual Fire and Explosion Haz.:	Not a fire or explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

Spill procedure:	Scoop up or vacuum into a container fo reclamation or disposal.
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7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Ingredient</u>	<u>Weight In Product (%)</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
Mica 12001-26-2	44.0 - 65.0	3 mg/m ³ (Respirable dust)	3 mg/m ³ (Respirable dust)
Titanium Dioxide 13463-67-7	25.0 - 36.0	10 mg/m ³ (Total dust) 5 mg/m ³ (Respirable dust)	10 mg/m ³ (Total dust)
Iron oxide - Fe ₂ O ₃ 1309-37-1	10.0 - 17.0	10 mg/m ³ (as Fe, total particulate)	5 mg/m ³ (as Fe, fume)
Carbide	0.5 - 2.5	None Established	None Established

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 2000 standards. Unless otherwise noted, all OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, January 19, 1989.

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: Red
Odor: Odorless

Boiling Point, °C: Not Applicable
Melting Point, °C: Decomposes
Freezing Point, °C: Not applicable
Density @ 25°C: 3.0Kg/L
Bulk Density: 19.2g/100 cc
Vapor Pressure: Not Applicable

Specific Gravity: 3.0
Solubility (In water): Insoluble
pH: 6.0-11.0 (4% H₂O)

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditional Hazards to Avoid:	None Known
Incompatibility (Materials to Avoid):	None Known
Hazardous Decomposition Products:	None Known
Polymerization:	Will Not Occur
Polymerization - Avoid:	None Known

11. TOXICOLOGICAL INFORMATION

Information on Product:

Information on Components:

<u>Ingredient</u>	<u>Weight In Product (%)</u>	<u>Acute Toxicity - Oral</u>	<u>Acute Toxicity - Inhalation</u>	<u>Acute Toxicity - Dermal</u>	<u>Acute Toxicity - Other</u>
Mica 12001-26-2	44.0 - 65.0	Not Available	Not Available	Not Available	Not Available
Titanium Dioxide 13463-67-7	25.0 - 36.0	> 5000 mg/kg (rat)	Not Available	Not Available	Not Available
Iron oxide - Fe2O3 1309-37-1	10.0 - 17.0	Not Available	Not Available	Not Available	Not Available
Carmine	0.5 - 2.5	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 INFORMATION

US EPA Waste Number:	Not regulated
Disposal of Waste Method:	This product, if disposed of 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:

UN/PIN number: Not Regulated

US Transportation Regulations:

DOT Classification: 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: Not Determined

US Federal Regulations:

<u>Ingredient</u>	<u>Weight In Product (%)</u>	<u>Subject to SARA 313 Reporting</u>
Mica 12001-26-2	44.0 - 65.0	No
Titanium Dioxide 13463-67-7	25.0 - 36.0	No
Iron oxide - Fe2O3 1309-37-1	10.0 - 17.0	No
Carmine	0.5 - 2.5	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

Prepared by: TKB Trading, LLC

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for persons working with or handling this product. The information presented in the MSDS is premised upon proper handling and anticipated uses, and is for the material without chemical additions/alterations. We believe this information to be reliable and up-to-date as of the date of publication, but make no warranty that it is. Additionally, if this MSDS is more than three years old, please contact the supplier at the phone number listed in Section 1 to make certain that this sheet is current.