

DEEP BLUE

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 24th 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	33.0 - 54.0	None.
Titanium Dioxide 13463-87-7	33.0 - 46.0	None.
Iron oxide - Fe ₃ O ₄ 1317-61-9	13.0 - 17.0	None.
Ferric Ferrocyanide 14038-43-8	0.8 - 4.0	None.

Emergency Overview:

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

**3.
HAZARDOUS
IDENTIFICATION**

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.

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.

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	33.0 - 54.0	N	N	N	N
Titanium Dioxide 13463-87-7	33.0 - 46.0	N	N3	N	A4
Iron oxide - Fe ₃ O ₄ 1317-81-9	13.0 - 17.0	N	N	N	N
Ferric Ferrocyanide 14038-43-8	0.8 - 4.0	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.

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.

Titanium Dioxide 13483-67-7	33.0 - 46.0	10 mg/m3 (Total dust) 5 mg/m3 (Respirable dust)	10 mg/m3 (Total dust)
Iron oxide - Fe3O4 1317-81-9	13.0 - 17.0	None Established	None Established
Ferric Ferrocyanide 14038-43-8	0.8 - 4.0	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.

Wash thoroughly after handling

Avoid contact with eyes.

Use only with adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

9. PHYSICAL AND CHEMICAL PROPERTIES

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	33.0 - 54.0	Not Available	Not Available	Not Available	Not Available
Titanium Dioxide 13463-87-7	33.0 - 46.0	> 5,000 mg/kg (rat)	Not Available	Not Available	Not Available
Iron oxide - Fe3O4 1317-61-9	13.0 - 17.0	Not Available	Not Available	Not Available	Not Available
Ferric Ferrocyanide 14038-43-8	0.8 - 4.0	Not Available	Not Available	Not Available	Not Available

10. STABILITY AND REACTIVITY

Stability:

Conditional Hazards to Avoid:

Incompatibility (Materials to Avoid):

Hazardous Decomposition Products:

Polymerization:

Stable

None Known

None Known

None Known

Will Not Occur

Polymerization - Avoid:

None Known

Form:

Color:

Odor:

Powder

Grayish Blue

Odorless

Boiling Point, °C:

Melting Point, °C:

Freezing Point, °C:

Density @ 25°C:

Bulk Density:

Vapor Pressure:

Specific Gravity:

Solubility (in water):

pH:

Not Applicable

Decomposes

Not applicable

3.2Kg/L

25.6g/100 cc

Not Applicable

3.2

Insoluble

2.2-8.0 (4% H2O)

11. TOXICOLOGICAL INFORMATION

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

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

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

VOC Content (CARB): None

Canadian Regulations:
WHMIS Classification:
Not Regulated

US Federal Regulations:

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Subject to SARA 313 Reporting</u>
Mica 12001-26-2	33.0 - 54.0	No
Titanium Dioxide 13463-67-7	33.0 - 46.0	No
Iron oxide - Fe3O4 1317-61-9	13.0 - 17.0	No
Ferro Ferrocyanide 14038-43-8	0.8 - 4.0	Yes

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:

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.