



# Material Safety Data Sheet

## Section 1. Product and Company Identification

Product Name    Deep Purple    Light Blue  
                         Deep Blue    Mexican Blue

Effective Date    6/13/2003

Print Date    6/13/2003

Material Uses    Cosmetic Pigments

Chemical Family    Inorganic pigment.

## Section 2. Composition and Information on Ingredients

Component		% by Weight
TITANIUM DIOXIDE		58-70
MICA (mineral)		26-41
FERRIC FERROCYANIDE		1-4

## Section 3. Hazards Identification

Physical State and Appearance    Solid. (Blue (with green highlights), lustrous, odorless powder )

Emergency Overview    MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Routes of Entry    Eye contact. Inhalation. Ingestion (not anticipated).

### Potential Acute Health Effects

*Eyes* May cause eye irritation.    Symptoms include: itching and redness after contact.

*Skin* May cause mild skin irritation.    Symptoms include: itching and redness after contact.

*Inhalation* May cause respiratory tract irritation.    Symptoms include: coughing, wheezing or shortness of breath when inhaled.

*Ingestion* Not an intended route of exposure.    May be hazardous in case of ingestion.    Symptoms include: gastrointestinal tract upset and diarrhea.

### Potential Chronic Health Effects

Additional information    See Toxicological Information (section 11)

Medical Conditions Aggravated by Overexposure:    Repeated or prolonged inhalation of any dust particulate may aggravate respiratory medical conditions.

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### Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If symptoms persist, seek medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reusing. Thoroughly clean shoes before reuse. If symptoms develop, seek medical attention.
Inhalation	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, seek medical attention.
Ingestion	Do not ingest. If this material is swallowed, call a physician immediately. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

### Section 5. Fire Fighting Measures

Flammability of the Product	Non-flammable.
Fire Fighting Media and Instructions	In case of fire, use water spray (fog), foam, dry chemical, or CO2.
Protective Clothing (Fire)	Wear self-contained breathing apparatus and full protective clothing.


### Section 6. Accidental Release Measures

Small Spill and Leak	Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements.
Large Spill and Leak	Use appropriate tools to put the spilled material into a labeled waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements. Check TLV in Section 8 of MSDS and with local authorities.
Spill Kit Information	No specific spill kit required for this product.

### Section 7. Handling and Storage

Handling	Avoid generating dust. Avoid breathing dust. Use only with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Keep container closed. Wash thoroughly after handling.
Storage	Keep container dry. Keep containers sealed until ready for use.

### Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	<p><i>Eyes</i> Safety glasses.</p> <p><i>Body</i> Lab coat.</p> <p><i>Respiratory</i> Dust mask. Use additional appropriate respiratory protection if there is the potential to exceed the exposure limit(s).</p> <p><i>Hands</i> Recommended: Gloves.</p> <p><i>Feet</i> Not applicable.</p>
Protective Clothing (Pictograms)	

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Personal Protection in Case of Splash goggles. Synthetic apron. Gloves. Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

Product Name	Exposure Limits
TITANIUM DIOXIDE	<b>ACGIH (United States, 1996).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). <b>OSHA Final Rule (United States, 1989).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Total dust
MICA (mineral)	<b>ACGIH (United States, 1994).</b> TWA: 3 mg/m <sup>3</sup> <b>OSHA (United States, 1989). Notes: Respirable</b> TWA: 3 mg/m <sup>3</sup> <b>ACGIH (United States, 1994).</b> TWA: 3 mg/m <sup>3</sup> 8 hour(s). <b>NIOSH REL (United States, 1994).</b> TWA: 3 mg/m <sup>3</sup> 10 hour(s). Form: Respirable fraction <b>OSHA Final Rule (United States, 1989).</b> TWA: 3 mg/m <sup>3</sup> 8 hour(s). Form: Respirable dust
FERRIC FERROCYANIDE	<b>ACGIH (United States, 1994).</b> TWA: 1 mg/m <sup>3</sup> 8 hour(s).

### Section 9. Physical and Chemical Properties

Odor	Odorless.
Color	Blue.(with green highlights)
Physical State and Appearance	Solid. (Blue (with green highlights), lustrous, odorless powder )
Molecular Weight	Mixture.
Molecular Formula	Not applicable.
pH	4 to 7 (Conc. (% w/w): 10)
Melting/Freezing Point	Not available.
Specific Gravity	Not applicable.
Density	Bulk density 6.5 to 7 g/in <sup>3</sup>
Solubility	Insoluble in water.

### Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Hazardous Decomposition Products	Not applicable.
Hazardous Polymerization	Will not occur.

### Section 11. Toxicological Information

RTECS Number:	Titanium Dioxide Mica (mineral) Ferric ferrocyanide	XR2275000 VV8760000 LJ8200000
Toxicity	Not available.	
Chronic Effects on Humans		

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Target Organs: eyes, lungs, skin.

May cause skin, eye and respiratory irritation.

Repeated or prolonged exposure to the substance at concentrations above the exposure limits may cause respiratory tract and skin sensitization.

This material is not known to cause cancer in animals or humans.

## Section 12. Ecological Information

The product itself and its products of degradation are not toxic.

### Section 13. Disposal Considerations

Non-hazardous waste

Dispose of according to all federal, state and local regulations.

## Section 14. Transport Information

Not regulated.

Not regulated.

Not regulated.

Not regulated.

## Section 15. Regulatory Information

TSCA 8(b) inventory: TITANIUM DIOXIDE; MICA (mineral); FERRIC FERROCYANIDE  
SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: TITANIUM DIOXIDE; MICA (mineral)  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: TITANIUM DIOXIDE:  
Immediate (Acute) Health Hazard; MICA (mineral): Immediate (Acute) Health Hazard  
SARA 313 toxic chemical notification and release reporting: No products were found.  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean air act (CAA) 112 accidental release prevention: No products were found.  
Clean air act (CAA) 112 regulated flammable substances: No products were found.  
Clean air act (CAA) 112 regulated toxic substances: No products were found.

Not controlled under WHMIS (Canada).

CEPA DSL: TITANIUM DIOXIDE: MICA (mineral): FERRIC FERROCYANIDE

Titanium Dioxide	236-675-5
MICA (mineral)	3101276
FERRIC FERROCYANIDE	237-875-5

S22- Do not breathe dust.

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**International Lists** Australia (NICNAS): Titanium Dioxide; MICA (mineral); FERRIC FERROCYANIDE

Korea (TCCL): Titanium Dioxide; MICA (mineral); FERRIC FERROCYANIDE

Philippines (RA6969): Titanium Dioxide; MICA (mineral); FERRIC FERROCYANIDE

**State Regulations** Pennsylvania RTK: Titanium Dioxide: (generic environmental hazard); FERRIC FERROCYANIDE: (environmental hazard, generic environmental hazard)  
Massachusetts RTK: Titanium Dioxide; MICA (mineral)  
New Jersey: Titanium Dioxide; MICA (mineral)

### Section 16. Other Information

**Hazardous Material  
Information System  
(U.S.A.)**

Health	*	1
Fire Hazard		0
Reactivity		0
Personal Protection		E

**National Fire  
Protection  
Association (U.S.A.)**

**Other Special  
Considerations** Not available.

**Changed Since Last Revision**



# Certificate of Analysis

1.17490.9025  
Batch

Deep Purple  
U210081X90

	Spec. values		Batch values		Method
Assay (Mica)	39.0- 60.0	%	48.9	%	Inhouse
Assay (TiO <sub>2</sub> )	18.0- 26.0	%	20.3	%	Inhouse
Assay (Fe <sub>2</sub> O <sub>3</sub> )	21.0- 30.0	%	27.8	%	Inhouse
Assay (Ferric Ferrocyanide)	1.0- 5.0	%	3.0	%	Inhouse
pH (10 % aqueous suspension)	3.0- 6.0		4.8		ISO 787-9
Particle Size Distribution	80% within the range 10.0-60.0µm		Conforms		Laser Diffraction
Particle Size (d <sub>50</sub> )	18.0- 25.0	µm	22.0	µm	Laser Diffraction
Screening Test (< 0.150 mm)	Conforms		Conforms		Inhouse
Loss on Drying (105°C)	≤ 1.0	%	≤ 1.0	%	ISO 787-2
Visual and Colorimetric Evaluation	Conforms		Conforms		Inhouse
Heavy metals (As)	≤ 0.0002	%	≤ 0.0002	%	mod.PCPC/int.method
Heavy metals (Ba)	≤ 0.0050	%	≤ 0.0050	%	mod.PCPC/int.method
Heavy metals (Cd)	≤ 0.0003	%	≤ 0.0003	%	mod.PCPC/int.method
Heavy metals (Cr)	≤ 0.0100	%	≤ 0.0100	%	mod.PCPC/int.method
Heavy metals (Cu)	≤ 0.0050	%	≤ 0.0050	%	mod.PCPC/int.method
Heavy metals (Hg)	≤ 0.0001	%	≤ 0.0001	%	mod.PCPC/int.method
Heavy metals (Ni)	≤ 0.0010	%	≤ 0.0010	%	mod.PCPC/int.method
Heavy metals (Pb)	≤ 0.0010	%	≤ 0.0010	%	mod.PCPC/int.method
Heavy metals (Sb)	≤ 0.0001	%	≤ 0.0001	%	mod.PCPC/int.method
Heavy metals (Zn)	≤ 0.0050	%	≤ 0.0050	%	mod.PCPC/int.method
Microbial Purity (Total Viable Aerobic Count)	≤ 100	CFU/g	≤ 100	CFU/g	USP,Ph.Eur.,JP
Gram negative bacteria	absent in 1 g		passes test		USP,Ph.Eur.,JP
E.coli	absent in 1 g		passes test		USP,Ph.Eur.,JP
Pseudomonas aeruginosa	absent in 1 g		passes test		USP,Ph.Eur.,JP
Staphylococcus aureus	absent in 1 g		passes test		USP,Ph.Eur.,JP
Salmonella species	absent in 10 g		passes test		USP,Ph.Eur.,JP
Candida Albicans	absent in 1 g		passes test		USP,Ph.Eur.,JP

Colour-Index (TiO<sub>2</sub>): C.I.No. 77891, Colour-Index (Iron Blue): C.I.No. 77510, Colour-Index (Fe<sub>2</sub>O<sub>3</sub>): C.I.No. 77491

This article meets the purity requirements in USA, Japan and European Union for cosmetic colour additives.

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