

# Material Safety Data Sheet



## Section 1. Product

Product Name **Blackstar Blue**

Effective Date **2/17/2005**

Print Date **2/17/2005**

Modern, Natural, Versatile  
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Baltimore, MD 21224  
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Material Uses **Cosmetic Pigments**

Chemical Family **Inorganic Pigment**

## Section 2. Composition and Information on Ingredients

Component		% by Weight
IRON OXIDE BLACK		56 - 64
MICA (mineral)		36 - 44

## Section 3. Hazards Identification

Physical State and Appearance **Solid. (Black-blue, odorless, lustrous 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 authority 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- Section 8 of MSDS.
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	
	<i>Eyes</i> Safety glasses.
	<i>Body</i> Lab coat.
	<i>Respiratory</i> Dust mask. Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s).
	<i>Hands</i> Recommended: Gloves.
	<i>Feet</i> Not applicable.

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Protective Clothing  
(Pictograms)Personal Protection in  
Case of a Large Spill

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

## Product Name

IRON OXIDE BLACK  
MICA (mineral)

## Exposure Limits

Not available.

**ACGIH (United States, 1994).**

TWA: 3 mg/m<sup>3</sup>

**OSHA (United States, 1989). Notes: Respirable**

TWA: 3 mg/m<sup>3</sup>

**ACGIH TLV (United States, 2004). Notes: Respirable fraction. The concentration of respirable dust for the application of this limit is to be determined for the fraction passing a size-selector with the characteristics defined in the "C." paragraph of Appendix D.**

TWA: 3 mg/m<sup>3</sup> 8 hour(s). Form: All forms

**NIOSH REL (United States, 2001).**

TWA: 3 mg/m<sup>3</sup> 10 hour(s). Form: Respirable fraction

**OSHA PEL 1989 (United States, 1989).**

TWA: 3 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust

### Section 9. Physical and Chemical Properties

Odor	Odorless.
Color	Black-blue
Physical State and Appearance	Solid. (Black-blue, odorless, lustrous powder)
Molecular Weight	Mixture.
Molecular Formula	Not applicable.
pH	5 to 9 (Conc. (% w/w): 10)
Melting/Freezing Point	Not available.
Specific Gravity	Not applicable.
Density	Bulk Density 4 to 4.8 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.

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**Section 11. Toxicological Information**

RTECS Number:	Iron Oxide, Black Mica (mineral)	Not available. VV8760000
Toxicity	Not available.	
Chronic Effects on Humans	<b>CARCINOGENIC EFFECTS:</b> Not available. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> Not available. Repeated or prolonged exposure to the substance at concentrations above exposure limits may cause respiratory damage. Target Organs: eyes, lungs, skin.	
Acute Effects on Humans	May cause skin, eye and respiratory irritation.	
Sensitization	Repeated or prolonged exposure to the substance at concentrations above the exposure limits may cause respiratory tract and lung sensitization.	
Carcinogenic Effects	This material is not known to cause cancer in animals or humans.	

**Section 12. Ecological Information**

**Toxicity of the Products of Biodegradation** The product itself and its products of degradation are not toxic.

**Section 13. Disposal Considerations**

EPA Waste Number	Non-hazardous waste
Treatment	Dispose of according to all federal, state and local regulations.

**Section 14. Transport Information**

DOT Classification	Not regulated.
TDG Classification	Not regulated.
IMO/IMDG Classification	Not regulated.
ICAO/IATA Classification	Not regulated.

**Section 15. Regulatory Information**

U.S. Federal Regulations	TSCA 8(b) inventory: IRON OXIDE BLACK; MICA (mineral) 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: MICA (mineral) SARA 311/312 MSDS distribution - chemical inventory - hazard identification: MICA (mineral): Immediate (Acute) Health Hazard SARA 313 Form R Reporting Requirements- No products were found. SARA 313 Supplier Notification- 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.
WHMIS (Canada)	Not controlled under WHMIS (Canada).

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CEPA DSL: IRON OXIDE BLACK; MICA (mineral)

International  
Regulations

EINECS IRON OXIDE BLACK 215-277-5  
MICA (mineral) 3101276

DSCL (EEC) S22- Do not breathe dust.

International Lists Australia (NICNAS): IRON OXIDE BLACK; MICA  
Japan (MITI): IRON OXIDE BLACK; MICA  
Korea (TCCL): IRON OXIDE BLACK; MICA  
Philippines (RA6969): IRON OXIDE BLACK; MICA

State Regulations Massachusetts RTK: MICA (mineral)  
New Jersey: MICA (mineral)

## Section 16. Other Information

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

Health	*	1
Fire Hazard		0
Reactivity		0
Personal Protection		E

Other Special Considerations Not available.

Changed Since Last  
Revision



# Certificate of Analysis

1.17463.9020  
Batch

Blackstar Blue  
N190020X63

	Spec. values		Batch values		Method
Assay (Fe <sub>3</sub> O <sub>4</sub> )	56.0- 64.0	%	59.0	%	Inhouse
Assay (Mica)	36.0- 44.0	%	41.0	%	Inhouse
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	20.7	µm	Laser Diffraction
Screening Test (<0.150 mm)	conforms		conforms		Inhouse
pH (10% aqueous suspension)	5.0- 9.0		8.3		ISO 787-9
Loss on Drying (105°C)	≤ 0.5	%	≤ 0.1	%	ISO 787-2
Heavy metals (As)	≤ 0.0002	%	≤ 0.0002	%	mod.PCPC/int.methods
Heavy metals (Ba)	≤ 0.0050	%	≤ 0.0050	%	mod.PCPC/int.methods
Heavy metals (Cd)	≤ 0.0003	%	≤ 0.0003	%	mod.PCPC/int.methods
Heavy metals (Cr)	≤ 0.0100	%	≤ 0.0010	%	mod.PCPC/int.methods
Heavy metals (Cu)	≤ 0.0050	%	≤ 0.0050	%	mod.PCPC/int.methods
Heavy metals (Hg)	≤ 0.0001	%	≤ 0.0001	%	mod.PCPC/int.methods
Heavy metals (Ni)	≤ 0.0010	%	≤ 0.0010	%	mod.PCPC/int.methods
Heavy metals (Pb)	≤ 0.0010	%	≤ 0.0010	%	mod.PCPC/int.methods
Heavy metals (Sb)	≤ 0.0001	%	≤ 0.0001	%	mod.PCPC/int.methods
Heavy metals (Zn)	≤ 0.0050	%	≤ 0.0050	%	mod.PCPC/int.methods
Visual and Colorimetric Evaluation	conforms		conforms		Inhouse
Microbial Purity (Total Viable Aerobic Count)	≤ 100	CFU/g	≤ 100	CFU/g	USP, Ph.Eur., JP
Gram negative bacteria	absent in 1g		passes test		USP, Ph.Eur., JP
E.coli	absent in 1g		passes test		USP, Ph.Eur., JP
Pseudomonas aeruginosa	absent in 1g		passes test		USP, Ph.Eur., JP
Staphylococcus aureus	absent in 1g		passes test		USP, Ph.Eur., JP
Salmonella species	absent in 10g		passes test		USP, Ph.Eur., JP
Candida albicans	absent in 1g		passes test		USP, Ph.Eur., JP

Colour-Index (Fe<sub>3</sub>O<sub>4</sub>): C.I.No. 77499

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

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