



Bead Brite Research

4811 Lyons Tech Pkwy

Coconut Creek, FL 33073

Tel: (954) 426-2360

Fax: (954) 426-0296

BEIGE RUBBER

The following is the MSDS for the pigments used in our Beige EPDM.

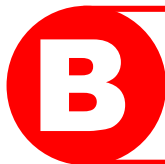
The following are approximate percentages for each Pigment used.

TITANIUM DIOXIDE: Less Than 1%

YELLOW: Less Than 1%

BROWN: Less Than 0.1%

BLACK: Less Than 0.1%



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Material Safety Data Sheet

1. Product and Manufacturer Identification

Product Name: RutileTitanium Dioxide Powder
Chemical Family: Titanium Dioxide (TiO₂)
Chemical Name: Pigment White
Formula: Propriety

Office address: 4811 Lyons Tech Pkwy
Suite 4
Coconut Creek, FL 33073
USA

Telephone (954) 426-2360
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2. Ingredients

Component	Cas #	Percent	ACGIH (STEL)	OSHA (STEL)
Pigment White 6	13463-67-7	84-97%	N/A	5(resp), 15 (total) mg/m ³
Aluminum Hydroxides	21645-51-2	6% Max	N/A	N/A
Amorphous Silica	7631-86-9	10%	N/A	N/A

3. Hazardous Identification

Emergency Overview:

Polymer bound dispersions generally preclude the possibility of airborne dust of the active ingredient. They also eliminate the problems generally associated with powdered chemicals.

4. Effects from Exposure

Ingestion: Polymer bound dispersions greatly reduce the problems generally associated with the powdered chemical.

Skin Contact: Polymer bound product greatly reduces the likelihood of skin irritation from the active ingredient.

Inhalation: Polymer bound dispersion preclude the possibility of airborne dust. Polymer bound dispersions greatly reduce the problems generally associated with powdered chemical.

Eye Contact: Polymer bound form minimizes exposure.

Medical conditions Aggravated: None known

Chronic Effects / Carcinogenicity: This product is not considered a carcinogen by IARC , NTP, or OSHA

Products / Ingredients: No information at this time

Principle Routes of Exposure: Polymer bound form minimizes risk of exposure by all routes of entry

Other: No information at this time



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5. First Aide Measures

Ingestion: Treat Symptomatically

Skin: Wash with soap and water

Inhalation: Treat Symptomatically

Eyes: Treat Symptomatically

6. Fire Fighting Measures

Flammable Limits in Air (%): Not applicable

Sensitivity to Mechanical Impact (Y/N): No

Sensitivity to Static Discharge: Sensitivity to static discharge is not expected

Extinguishing Media: Water, Foam, H2O

Special Fire Fighting Procedures: Fire Fighter should wear self contained breathing apparatus

7. Accidental Release Measures

Actions to be taken if material is released or Spilled: Place contaminated material in appropriately marked containers for disposal. Collect and return clean material to container for use.

8. Handling and Storage

Precautions to be taken in Handling and Storage: Store in a cool and dry location

9. Exposure Controls / Personal Protection

Engineering Controls: Exhaust Ventilation

Respiratory Protection Equipment: Local exhaust is desirable

Protective Gloves: Recommended

Eye and Face Protection: safety Glass

Other Protective Equipment: None required

Ventilation: Local exhaust must always be provided to draw dust, fumes and vapors away from workers to prevent routine inhalation



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10. Physical and Chemical Properties

Boiling Point: N/A Vapor Pressure: N/A Vapor Density (air=1): N/A
Flash Point: N/A Melting Point/Freeze Point: 1830* Physical State: Powder
Odor: None Color: White Odor Threshold (ppm): N/A
% Volatile by Volume: N/A Evaporation Rate: N/A Specific Gravity (water=1): 4.10
Acid / Alkalinity (MEQ/G): Variable PH: 5.5-8.5 Solubility in Water (20°C): Insoluble
Solubility in Organic Solvent (State Solvent): Not Determined

11. Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will Not occur
Hazardous Thermal Decomposition/Combustion Products: None Known
Incompatibility (Materials to Avoid): None Known
Conditions to Avoid: None Known

12. Toxicological Information

Acute Oral LD50 (MG/KG): Not Determined
Acute Dermal LD (MG/KG): Not Determined
Acute Inhalation LC50 (MG/L): Not Determined
Other: None
AMES Test: Not Determined

13. Ecological Information

Ecotoxicological Information: No data at this time

Chemical Fate Information: No data at this time

14. Disposal Considerations

Disposal Method: Bury in a licensed landfill or burn in an approved incinerator according to federal, state and local regulations

15. Transport Information

DOT Shipping Name: Not regulated
DOT Hazard Class: N/A
DOT Label (s): N/A
UN/NA Number: N/A
IATA: N/A
IMO IMDG-code: N/A



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16. Regulatory Information

TSCA Status: All components of this product are listed on the TSCA Inventory

SARA Section 302: Not reportable

SARA (311,312) Hazard Class: None

SARA 313 Chemicals: Contains no SARA Title III, Section 313 notification chemical present at or above the de minimus concentration

New Jersey Right to Know:

Aluminum Hydroxides: CAS # 21645-51-2 (not listed)

Titanium Dioxide: CAS # 13463-67-7 (listed)

Amorphous Silica: CAS# 7631-86-9 (listed)

CA Prop 65: To the best of our knowledge, this product contains no levels of listed substances, which in the state of California have been found to cause cancer, birth defects or other reproductive effects.

Pennsylvania Right to Know: Not Listed

HMIS

Health: 0

Flammability: 1

Reactivity: 0

NFPA: Not Determined

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Material Safety Data Sheet

1. Product and Manufacturer Identification

Product Name: YR400
Trade Name: Yellow Rubber
Chemical Name: Dispersion of Pigment Yellow 42 in EPR
Formula: Propriety

Office address: 4811 Lyons Tech Pkwy
Suite 4
Coconut Creek, FL 33073
USA

Telephone (954) 426-2360
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Email Beadbrite@aol.com

2. Ingredients

Component	CAS #	Percent	ACGIH STEL	TLV TWA	OSHA PEL STEL	PEL UNITS
Pigment Yellow 42	51274-00-1	Unknown	N/A	N/A	N/A	N/A
EPR Binder System	61789-00-2	Unknown	N/A	N/A	N/A	N/A

TSCA Status: All components of this product are listed on the TSCA inventory

3. Hazardous Identification

Emergency Overview:

Polymer bound dispersions generally preclude the possibility of airborne dust of the active ingredient. They also eliminate the problems generally associated with powdered chemicals.

4. Effects from Exposure

Ingestion: Polymer bound dispersions greatly reduce the problems generally associated with the powdered chemical.

Skin Contact: Polymer bound product greatly reduces the likelihood of skin irritation from the active ingredient.

Inhalation: Polymer bound dispersion preclude the possibility of airborne dust. Polymer bound dispersions greatly reduce the problems generally associated with powdered chemical.

Eye Contact: Polymer bound form minimizes exposure.

Medical conditions Aggravated: None known

Chronic Effects / Carcinogenicity: This product is not considered a carcinogen by IARC, NTP, or OSHA

Products / Ingredients: No information at this time

Principle Routes of Exposure: Polymer bound form minimizes risk of exposure by all routes of entry

Other: No information at this time



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5. First Aide Measures

Ingestion: Treat Symptomatically

Skin: Wash with soap and water

Inhalation: Treat Symptomatically

Eyes: Treat Symptomatically

6. Fire Fighting Measures

Flammable Limits in Air (%): Not applicable

Sensitivity to Mechanical Impact (Y/N): No

Sensitivity to Static Discharge: Sensitivity to static discharge is not expected

Extinguishing Media: Water, Foam, H2O

Special Fire Fighting Procedures: Fire Fighter should wear self contained breathing apparatus

7. Accidental Release Measures

Actions to be taken if material is released or Spilled: Place contaminated material in appropriately marked containers for disposal. Collect and return clean material to container for use.

8. Handling and Storage

Precautions to be taken in Handling and Storage: Store in a cool and dry location

9. Exposure Controls / Personal Protection

Engineering Controls: Exhaust Ventilation

Respiratory Protection Equipment: Local exhaust is desirable

Protective Gloves: Recommended

Eye and Face Protection: safety Glass

Other Protective Equipment: None required

Ventilation: Local exhaust must always be provided to draw dust, fumes and vapors away from workers to prevent routine inhalation



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10. Physical and Chemical Properties

Boiling Point: N/A Vapor Pressure: N/A Vapor Density (air=1): N/A
Flash Point: N/A Melting Point/Freeze Point: N/A Physical State: Rubber Sticks
Odor: Little Color: Yellow Odor Threshold (ppm): N/A
% Volatile by Volume: N/A Evaporation Rate: N/A Specific Gravity (water=1): 1.64
Acid / Alkalinity (MEQ/G): N/A PH: N/A Solubility in Water (20°C): Insoluble
Solubility in Organic Solvent (State Solvent): Not Determined

11. Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will Not occur
Hazardous Thermal Decomposition/Combustion Products: None Known
Incompatibility (Materials to Avoid): None Known
Conditions to Avoid: None Known

12. Toxicological Information

Acute Oral LD50 (MG/KG): Not Determined
Acute Dermal LD (MG/KG): Not Determined
Acute Inhalation LC50 (MG/L): Not Determined
Other: No irritation to eyes or skin
AMES Test: Not Determined

13. Ecological Information

Ecotoxicological Information: No data at this time

Chemical Fate Information: No data at this time

14. Disposal Considerations

Disposal Method: Bury in a licensed landfill or burn in an approved incinerator according to federal, state and local regulations

15. Transport Information

DOT Shipping Name: Not regulated
DOT Hazard Class: N/A
DOT Label (s): N/A
UN/NA Number: N/A
IATA: N/A
IMO IMDG-code: N/A



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16. Regulatory Information

TSCA Status: All components of this product are listed on the TSCA Inventory

SARA Section 302: Not reportable

SARA (311,312) Hazard Class: None

SARA 313 Chemicals: Contains no SARA Title III, Section 313 notification chemical present at or above the de minimus concentration

New Jersey Right to Know: Pigment Yellow 42 CAS # 51274-00-1 – Not listed
EPR CAS # 61789-00-2 - Not Listed

CA Prop 65: To the best of our knowledge, this product contains no levels of listed substances, which in the state of California have been found to cause cancer, birth defects or other reproductive effects.

Pennsylvania Right to Know: Not Listed

HMIS

Health: 0

Flammability: 1

Reactivity: 0

NFPA: Not Determined

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Material Safety Data Sheet

1. Product and Manufacturer Identification

Trade Name: Akrochem E-8850 Medium Brown Iron Oxide Powder
Chemical Name: Pigment Brown
Chemical Family: Iron Oxide

Office address: 4811 Lyons Tech Pkwy
Suite 4
Coconut Creek, FL 33073
USA

Telephone (954) 426-2360
Fax (954) 426-0296

Email Beadbrite@aol.com

2. Ingredients

Component	CAS #	Percent	ACGIH TLV STEL TWA	OSHA PEL STEL UNITS
Pigment Brown 7	1345-27-3	Unknown	N/A N/A	N/A

Contains no SARA Title III, Section 313 notification chemical present at or above the deminimus concentration

All ingredients appear on the EPA TSCA Inventory

3. Physical / Chemical Properties

Boiling Point: N/A Specific Gravity: 3.80 calc
Vapor Pressure (mm Hg): N/A Melt Point: N/A
Vapor Density (air=1): N/A Evaporation Rate: N/A
Solubility in Water: Insoluable
Appearance and Odor: Brown Powder, Little Odor

4. Fire and Explosion Data

Flash Point: N/A Flammable Limits: LEL: N/A UEL: N/A

Extinguishing Media: Water, Foam, H2O

Special Firefighting Procedures: Wear self contained breathing apparatus.



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5. Reactivity Data

Stability: Stable

Conditions to Avoid: None Known

Hazardous Decomposition products: None Known

Hazardous Polymerization: Will not occur

6. Health Hazard Data

Routes of Entry: Inhalation, Skin, Ingestion

Health Hazards: Acute: Eye skin irritant Chronic: None Known

Carcinogenicity: NTP- No IARC Monograph- No OSHA Regulated- No

Signs of Symptoms of Exposure: Typical for eye and skin Irritant

Medical conditions aggravated by exposure: None Known

7. Accidental Release Measures

Actions to be taken if material is released or Spilled: Place contaminated material in appropriately marked containers for disposal. Collect and return clean material to container for use.

8. Handling and Storage

Precautions to be taken in Handling and Storage: Store in a cool and dry location

9. Exposure Controls / Personal Protection

Engineering Controls: Exhaust Ventilation

Respiratory Protection Equipment: Local exhaust is desirable

Protective Gloves: Recommended

Eye and Face Protection: safety Glass

Other Protective Equipment: None required

Ventilation: Local exhaust must always be provided to draw dust, fumes and vapors away from workers to prevent routine inhalation



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Material Safety Data Sheet

1. Product and Manufacturer Identification

Product Name: E-8846 Black Iron Oxide Powder
Chemical Family: Iron Oxide
Chemical Name: Pigment Black 11
Formula: Propriety

Office address: 4811 Lyons Tech Pkwy
Suite 4
Coconut Creek, FL 33073
USA

Telephone (954) 426-2360
Fax (954) 426-0296

Email Beadbrite@aol.com

2. Ingredients

<u>Component</u>	<u>Cas #</u>	<u>Percent</u>	<u>ACGIH (STEL)</u>	<u>OSHA (STEL)</u>
Pigment Black	12227-89-3	100%	N/A	5(resp) 15(total) mg/m ³

Components not listed are trade secrets in accordance with OSHA 29 CFR 1910.1200

3. Hazardous Identification

Emergency Overview:

Polymer bound dispersions generally preclude the possibility of airborne dust of the active ingredient. They also eliminate the problems generally associated with powdered chemicals.

4. Effects from Exposure

Ingestion: Polymer bound dispersions greatly reduce the problems generally associated with the powdered chemical.

Skin Contact: Polymer bound product greatly reduces the likelihood of skin irritation from the active ingredient.

Inhalation: Polymer bound dispersion preclude the possibility of airborne dust. Polymer bound dispersions greatly reduce the problems generally associated with powdered chemical.

Eye Contact: Polymer bound form minimizes exposure.

Medical conditions Aggravated: None known

Chronic Effects / Carcinogenicity: This product is not considered a carcinogen by IARC, NTP, or OSHA

Products / Ingredients: No information at this time

Principle Routes of Exposure: Polymer bound form minimizes risk of exposure by all routes of entry

Other: No information at this time



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5. First Aide Measures

Ingestion: Treat Symptomatically

Skin: Wash with soap and water

Inhalation: Treat Symptomatically

Eyes: Treat Symptomatically

6. Fire Fighting Measures

Flammable Limits in Air (%): Not applicable

Sensitivity to Mechanical Impact (Y/N): No

Sensitivity to Static Discharge: Sensitivity to static discharge is not expected

Extinguishing Media: Water, Foam, H2O

Special Fire Fighting Procedures: Fire Fighter should wear self contained breathing apparatus

7. Accidental Release Measures

Actions to be taken if material is released or Spilled: Place contaminated material in appropriately marked containers for disposal. Collect and return clean material to container for use.

8. Handling and Storage

Precautions to be taken in Handling and Storage: Store in a cool and dry location

9. Exposure Controls / Personal Protection

Engineering Controls: Exhaust Ventilation

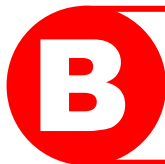
Respiratory Protection Equipment: Local exhaust is desirable

Protective Gloves: Recommended

Eye and Face Protection: safety Glass

Other Protective Equipment: None required

Ventilation: Local exhaust must always be provided to draw dust, fumes and vapors away from workers to prevent routine inhalation



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10. Physical and Chemical Properties

Boiling Point: N/A Vapor Pressure: N/A Vapor Density (air=1): N/A
Flash Point: N/A Melting Point/Freeze Point: N/A Physical State: Powder
Odor: Little Color: Black Odor Threshold (ppm): N/A
% Volatile by Volume: N/A Evaporation Rate: N/A Specific Gravity (water=1): 4.6 calc
Acid / Alkalinity (MEQ/G): N/A PH: N/A Solubility in Water (20°C): Insoluble
Solubility in Organic Solvent (State Solvent): Not Determined

11. Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will Not occur
Hazardous Thermal Decomposition/Combustion Products: None Known
Incompatibility (Materials to Avoid): None Known
Conditions to Avoid: High Temperatures

12. Toxicological Information

Acute Dermal LD50 (MG/KG): Not Determined
Acute Inhalation LC50 (MG/L): Not Determined
Other: Eye and Skin Irritant
AMES Test: Not Determined

13. Ecological Information

Ecotoxicological Information: No data at this time

Chemical Fate Information: No data at this time

14. Disposal Considerations

Disposal Method: Bury in a licensed landfill or burn in an approved incinerator according to federal, state and local regulations

15. Transport Information

DOT Shipping Name: Not regulated
DOT Hazard Class: N/A
DOT Label (s): N/A
UN/NA Number: N/A
IATA: N/A
IMO IMDG-code: N/A



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16. Regulatory Information

TSCA Status: All components of this product are listed on the TSCA Inventory

SARA Section 302: Not reportable

SARA (311,312) Hazard Class: Acute Health Hazard

SARA 313 Chemicals: Contains no SARA Title III, Section 313 notification chemical present at or above the deminimus concentration

New Jersey Right to Know: Pigment Black CAS# 12227-89-3 (not listed)

CA Prop 65: To the best of our knowledge, this product contains no levels of listed substances, which in the state of California have been found to cause cancer, birth defects or other reproductive effects.

Pennsylvania Right to Know: Not Listed

HMIS

Health: 0

Flammability: 1

Reactivity: 0

NFPA: Not Determined

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