



Material Safety Data Sheet

Manufactured For:
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COMPOSITION/INFORMATION ON INGREDIENTS - (EXPOSURE LIMITS - SEE SECTION VIII)

INGREDIENT NAME	CAS #	%
Polymer of Epoxy Resin & Bisphenol A	25036-25-3	25.01 - 30.00
Calcium carbonate	471-34-1	25.01 - 30.00
Titanium dioxide	13463-67-7	1.01 - 5.00
Carbon black	1333-86-4	0.10 - 1.00

If ingredient percentages do not total 100%, the balance is due to rounding or applies to ingredient(s) deemed nonhazardous under 29 CFR 1910.1200 (Hazard Communication Standard).

III. HAZARDS IDENTIFICATION

	HMIS
HEALTH	1 *
FLAMMABILITY	1
REACTIVITY	0

0 = Least 1 = Slight 2 = Moderate 3 = High 4 = Extreme * = Chronic Health Effects

Routes of Entry:

Inhalation, Skin contact, Eye contact, Ingestion.

Medical Conditions Aggravated:

Eye disease, Skin disease including eczema and sensitization, Lung disease.

Immediate (Acute) Health Effects:

Low to moderate airborne particulate concentrations may induce respiratory irritation and/or aggravate pre-existing respiratory problems, even in the absence of a toxic component. High airborne particulate concentrations may also reduce visibility, cause injury to the skin or mucous membranes by chemical or mechanical action or by rigorous skin cleansing procedures needed for their removal. Dermatitis and sensitization may occur in susceptible individuals.

Inhalation:

Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.

in Contact:

Can cause minor skin irritation, defatting, and dermatitis.

Eye Contact:

Can cause minor irritation, tearing and reddening.

Skin Absorption:

No absorption hazard in normal industrial use.

Ingestion:	Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort.
Target Organ Acute Toxicity:	Respiratory System, Eyes, Skin, Bone Marrow, Cardiovascular System, Lymphatic System.
<u>Long-Term (Chronic) Health Effects:</u>	
Inhalation:	Inhaling sufficiently high quantities of any dust can cause physiological changes in lung tissue, even in the absence of toxic components. No effects are expected when exposures are maintained below limits given elsewhere in this MSDS. Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Upon prolonged or repeated contact, can cause minor skin irritation, defatting, and dermatitis.
Eye Contact:	Upon prolonged or repeated contact, can cause minor irritation, tearing and reddening.
Skin Absorption:	Upon prolonged or repeated exposure, no hazard in normal industrial use.
Carcinogenicity:	IARC: Yes NTP: No OSHA: No
Target Organ Chronic Toxicity:	Respiratory System, Eyes, Skin, Lymphatic System.
	This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding or grinding.

IV. FIRST AID

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. Seek medical attention if symptoms persist.
Eyes:	Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.
Skin Contact:	Wash with soap and water. Get medical attention if irritation develops or persists. As a good general hygienic rule, if clothing comes in contact with the product, the clothing should be laundered before re-use.
Ingestion:	Seek medical advice immediately. Provide ingredients information from Section II of this MSDS to the medical care provider. Contact your local Poison Control Center (listed in the telephone book), or dial the local "Emergency" (911) number for additional information. Do not induce vomiting unless instructed to do so by a physician or other competent medical personnel. Never give anything by mouth to an unconscious person.

V. FIRE FIGHTING MEASURES

Flash Point:	N/A
Autoignition Temperature:	N/A
Lower Flammable/Explosive Limit, % in air:	25 - 70 g/m3
General Hazard:	Dusts can form an explosive or flammable mixtures with air. Ignitable bulk powder has an HMIS/NFPA flammability rating of 1. The same material dispersed in air at a concentration between its explosive limits has an HMIS/NFPA flammability rating of 4. Ignition may be initiated by hot surfaces, open flames or electrical sparks. This product, when dried or cured, may support combustion when subjected to sources of ignition or heat in sufficient amount.
Fire and Explosion Hazards:	Bulk powder in storage or being transferred in closed containers has an HMIS/NFPA flammability rating of 1. If this material is transferred into a process or dispersed in a powder coating application where concentrations can reach the explosive limit, the HMIS/NFPA flammability rating is 4. Dusts of sufficient concentrations can form explosive mixtures with air. During a fire, irritating and toxic gases may be generated during combustion or decomposition.
Extinguishing Media:	Small Fires : Foam, carbon dioxide, dry chemical or water spray. Large Fires : Foam, water spray or fog.

Fire Fighting Instructions:

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

Hazardous Combustion Products:

Carbon dioxide, Carbon monoxide.

VI. ACCIDENTAL RELEASE MEASURES**Health Consideration for Spill Response:**

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section VIII of this MSDS

Spill Mitigation Procedures:

Use vacuum equipment approved for use in collecting dusts from hazardous locations. Vacuum lines should be conductive and capable of being grounded. If sweeping, sweep carefully to minimize dusting. (If this product contains aluminum as an ingredient in Section II of this MSDS, do not use water to minimize dusting. Use compound/moisture for other powders to reduce dust.) Fine particles can cause a fire or explosion. Remove all sources of ignition and use spark free tools.

Uncontaminated material may be scooped up for reuse. If discarded, material should be placed in a receptacle for disposal in accordance with local, state and Federal regulations.

Air Release:

Ventilate the area by opening door and/or turning on fans and blowers.

Water Release:

Retain all contaminated water for treatment.

Land Spills:

Avoid runoff into storm sewers and ditches that lead to waterways.

VII. HANDLING AND STORAGE**Handling:**

Mildly irritating material. Avoid unnecessary exposure. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area. Do not get in eyes, on skin and clothing. Ground and bond containers when transferring material. Use spark-proof tools and explosion-proof equipment. Remove contaminated clothing and wash before reuse. Store in a cool, dry place. Handling can create explosive dust clouds. Eliminate ignition sources. Use explosion proof electrical equipment. Ground process equipment in order to reduce sparking. Isolate from incompatible materials. Keep containers tightly closed.

Storage:

Store in a cool dry place. Isolate from incompatible materials. Keep container closed when not in use. Store in a cool dry place. Keep away from heat, sparks, and flame.

VIII. ENGINEERING CONTROLS, PERSONAL PROTECTIVE EQUIPMENT, AND EXPOSURE LIMITS**Engineering Controls:**

Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. See table at the end of this Section VIII below for exposure limits. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Engineering controls must be designed to meet any relevant OSHA chemical specific standards in 29 CFR 1910.

Protective Equipment:**Respiratory Tract:**

No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained in Section III. If a respirator is warranted, follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements.

Eyes:

Wear safety glasses when handling this product. An eye wash station must be available where this product is used.

Skin:

Not normally considered a significant skin irritant. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Protective Clothing:

Wear chemically resistant gloves and apron. (Consult your safety equipment supplier).

CHEMICAL NAME	CAS #	ACGIH TLV	OSHA PEL	IDLH
Polymer of Epoxy Resin & Bisphenol A	25036-25-3	No TLV	No PEL established	Not determined.

Calcium carbonate	471-34-1	No TLV	No PEL established	Not determined.
Titanium dioxide	13463-67-7	10 mg/m3 TWA	15 mg/m3 TWA (total dust)	5,000 mg/m3 IDLH
Carbon black	1333-86-4	3.5 mg/m3 TWA	3.5 mg/m3 TWA	1750 mg/m3 IDLH

Nuisance particulates (nontoxic dusts) are expected to produce no health effects when airborne concentrations are maintained below the following limits:
 OSHA PEL = 5 mg/m3 (respirable fraction); 15 mg/m3 (total dust); ACGIH TLV = 10 mg/m3 (total particulates.)

IX. PHYSICAL DATA

Physical State:	Powder.
Color:	See "Product Name" in Section I of this MSDS.
Odor:	Slight if any.
pH:	N/A
Solubility in Water:	Negligible
Vapor Density:	N/A
Evaporation Rate:	Not determined
Specific Gravity:	1.49
V.O.C.	0.0 Lbs./GAL. less water and exempt solvent; 0 grams/liter; 0.0 Lbs./GAL. w/w

The VOC content is determined by using a percent solids basis, less water and exempt solvents, for adhesives, coatings and inks and the calculations of EPA Reference Method 24 or equivalent ASTM method approved by the executive office.

Initial Boiling Point	° C;	° F
Initial Freezing Point	N/A	

X. STABILITY AND REACTIVITY

Stability Information:	Stable under normal conditions.
Conditions to Avoid:	Contamination Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.
Chemical Incompatibility:	Strong oxidizing agents.
Hazardous Decomposition Products:	Carbon dioxide, Carbon monoxide.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	LD50/LC50
Carbonic acid, calcium salt (1:1)	Oral LD50 Rat : 6450 mg/kg
Carbon black	Oral LD50 Rat : >15400 mg/kg; Dermal LD50 Rabbit : >3 gm/kg

XII. ECOLOGICAL INFORMATION

Overview :	Care should be taken to minimize releases of any industrial chemicals to the environment.
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XIII. DISPOSAL CONSIDERATIONS

Disposal Methods:	Information in this MSDS is provided only as a guide. Consult with competent authority to determine proper waste disposal procedures. Clean up and dispose of waste and clean-up materials in accordance with all federal, state, and local environmental regulations.
Potential EPA Waste Codes:	Not determined.

Some Components Possibly Subjected to USEPA Land Disposal Restrictions:

When disposing of unused products or any waste, the preferred options are to send to a licensed reclaimer or to permitted incinerators. There may be some other ingredients subject to LDR categories. None expected.

XIV. TRANSPORTATION INFORMATION

Agency	Basic Description and Label
DOT	DOT & IATA: NOT REGULATED

Hazardous Substance

Not expected.

XV. REGULATORY INFORMATION

Regulation

SARA 313 Reportable :	This product contains no Section 313 chemicals at or above de minimis values.
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TSCA Inventory : All components of this product are listed in, or exempt from, the TSCA 8(b) Inventory.

California Proposition 65 : The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65: "WARNING: This product contains chemical(s) known to the State of California to cause cancer and/or birth defects or other reproductive harm."

XVI. ADDITIONAL INFORMATION

Major References: VENDOR'S MSDS's, PAINT & COATINGS HANDBOOK, EPA's LIST OF LISTS, AND OTHER PUBLISHED MATERIALS.

IMPORTANT: WHILE THE DESCRIPTIONS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, THEY ARE PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU PERFORM AN ASSESSMENT TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED, DATA OR INFORMATION SET FORTH. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, OR DATA PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, THE DESCRIPTIONS, DATA AND INFORMATION FURNISHED HERE ARE GIVEN GRATIS. NO OBLIGATIONS NOR LIABILITIES FOR THE DESCRIPTION, DATA AND INFORMATION GIVEN ARE ASSUMED. ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.