



SAFETY DATA SHEET – EarthResin

Section 1 - Product and Company Identification

Manufactured by: Kewaunee Scientific Corporation
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Date of Preparation: May 27th, 2015

Product Name: EarthResin Products

Product Class: Epoxy Resin

Section 2 - Hazards Identification

Note: The handling and use of this product as purchased is not anticipated to result in exposures to hazardous ingredients – as it is a completely cured and solid material. However, drilling and cutting of this product may result in the release of crystalline silica.

GHS Classification:
Carcinogenicity – Category 2

Symbols:



Signal Word:

Warning

Hazard Statements:

Dust released during drilling and cutting suspected of causing cancer

May cause respiratory irritation

Precautionary Statements:

Use wet sanding or drilling/cutting techniques if possible

Use adequate local ventilation if drilling or cutting

Use appropriate respiratory protection with a particulate filter if drilling or cutting

Section 3 - Composition/Information on Ingredients

CAS #	Component	Percent
025068-38-6	Epoxy Resin	20-30%
14808-60-7	Crystalline Silica	60-75%
65997-17-3	Glass Beads	10%
Pigments, catalysts, additives (see below):	Components will vary due to color, etc. and the exact ratios are proprietary	10-30%
85-44-9	Phthalic Anhydride	-----
552-30-7	Trimellitic Anhydride	-----
1333-86-4	Carbon Black	-----
13463-67-7	Titanium Dioxide	-----

Section 4 - First Aid Measures

Eyes:

Flush eyes with running water for 15 minutes if irritation develops. If irritation continues, contact a physician.

Inhalation:

Remove to fresh air until symptoms clear. Contact a physician if irritation continues or worsens.

Ingestion:

Do not induce vomiting, contact a physician.

Skin:

Clean skin with soap and water. If irritation continues, contact a physician

Section 5 - Fire Fighting Measures

This product does not readily burn. However, thermal decomposition products such as carbon monoxide can be released if temperatures are high enough to support combustion.

Extinguishing media:

Water fog, dry chemical or foam.

Special Fire Fighting Procedures:

Use SCBA and appropriate personal protective equipment. Keep cool with water.

Section 6 - Accidental Release Measures

The finished product is a solid so no special leak or spill procedures are necessary. Dust generated from drilling and cutting should be collected and disposed of according to local regulations.

Section 7 - Handling and Storage

Handling procedures:

No special handling procedures are necessary during normal handling of this product. Workers involved in cutting and drilling operations need to wash exposed skin before eating and after each shift. Exposed clothing should be removed or cleaned to avoid tracking dust into other areas. Personal protective equipment should be worn as described in Exposure Controls/Personal Protection section.

Storage procedures:

Keep away from extreme heat.

Section 8 - Exposure Controls/Personal Protective Equipment

Note: No hazardous exposure is expected during normal use of this product requiring no engineering or personal protective equipment. However, cutting and drilling may result in the release of crystalline silica.

Crystalline Silica (14808-60-7)

NIOSH TWA: .05 mg/m³ (as respirable dust)

ACGIH TWA: .1 mg/m³ (as respirable dust)

OSHA TWA: .1 mg/m³ (as respirable dust)

Engineering measures:

Use appropriate local ventilation and/or suction to control dust when drilling or cutting. Wet methods can also be used.

Personal Protective Equipment: Respiratory

Depending on exposure, use particulate respirator with at least an N95, R95 or P95 filter.

Personal Protective Equipment: Hands

Any general work glove can be used.

Personal Protective Equipment: Eyes

ANSI Z87 rated safety glasses or goggles should be worn.

Personal Protective Equipment: Skin and Body

Clothing should cover exposed skin to prevent excessive exposure.

Section 9 - Physical and Chemical Properties

Appearance: Solid material of varying color

Odor: None

Specific Gravity: 1.97

Vapor Pressure: NA

Vapor Density: NA

Boiling Point: NA

Solubility: Insoluble

pH: NA

Melting Point: > 400 Fahrenheit

Flash Point: NA

Evaporation Rate: NA

Upper/Lower Explosion Limits: NA

Auto-ignition Temperature: Unknown

Decomposition Temperature: Unknown

Viscosity: NA

Section 10 - Stability and Reactivity

Reactivity:

Stable

Chemical Stability:

Stable. Hazardous polymerization will not occur.

Other:

Avoid extreme heat

Avoid strong oxidizers

Section 11 - Toxicological Information

Crystalline Silica (14808-60-7):

Acute Toxicity: Ingestion, inhalation or eye contact can cause irritation.

Mutagenicity: No mutagen data has been reported

Carcinogenicity:

IARC – Group 1 carcinogen (respirable function)

ACGIH – A2 – Suspected human carcinogen (respirable function)

NIOSH – Potential occupational carcinogen (respirable function)

NTP – Known carcinogen (respirable function)

OSHA – Select carcinogen

Reproductive Toxicity: No reproductive data has been reported

STOT (Single Exposure): Can cause respiratory irritation when overexposed

STOT (Repeated Exposure): Can cause silicosis and lung cancer when overexposed

Aspiration Hazard: Not expected to be an aspiration hazard

Shortness of breath, wheezing, cough, non-specific chest illnesses and progressive impairment of pulmonary function are symptoms of silicosis. Smoking aggravates this disease.

Section 12 - Ecological Information

Toxicity:

No data available. Not anticipated to be toxic

Persistence and Degradability:

No data available. Not anticipated to degrade in a harmful manner

Bioaccumulative Potential:

No data available. Not anticipated to have harmful potential

Mobility in Soil:

No data available. Not anticipated to have harmful potential

Although not anticipated to be an environmental hazard, care should be taken to prevent dust from entering sewers and waterways.

Section 13 - Disposal Information

This material as purchased is a non-hazardous solid and should be disposed of in a sanitary landfill according to local regulations.

Section 14 - Transportation Information

Proper Shipping Name: This product as purchased is not subject to regulations governing transportation of hazardous materials.

Hazard Class: Not applicable

UN Identification Number: Not applicable

Packing Group: Not applicable

DOT Label Required: Not applicable

ERG Number: Not applicable

Section 15 - Regulatory Information

This product as purchased is not subject to other regulatory requirements.

Section 16 – Other Information

Glossary:

ACGIH-American Conference of Governmental Industrial Hygienists; **ANSI**-American National Standards Institute; **CAS**-Chemical Abstract Service; **Chemtrec**-Chemical Transportation Emergency Center (US); **EPCRA**-Emergency Planning and Community Right-To-Know Act; **GHS**-Globally Harmonized System of Classification and Labeling of Chemicals; **HMIS**-Hazardous Material Information Service; **IARC**-International Agency for Research on Cancer; **LEL**-Lower Explosion Level; **NFPA**-National Fire Protection Association; **NIOSH**-National Institute of Occupational Safety and Health; **NTP**-National Toxicology Program; **OSHA**-Occupational Safety and Health Administration, US Dept. of Labor; **PEL**-Permissible Exposure Limit; **SARA** (Title III)-Superfund Amendments and Reauthorization Act; **SCBA**-Self-Contained Breathing Apparatus; **STEL**-Short Term Exposure Limit; **STOT**-Specific Target Organ Toxicity; **TLV**-Threshold Limit Value; **TSCA**-Toxic Substances Control Act; **TWA**-Time Weighted Value; **UEL**-Upper Explosion Level

Information presented has been compiled from sources considered dependable, and is accurate to the best of our knowledge. No warranty, either expressed or implied, is made regarding the accuracy of any of the information contained herein. The product user assumes responsibility for use or misuse of the product.