

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Epoxy.com #41 **Single Packaging**
Product Description: silane – Resin
Company: Epoxy Systems, Inc.
Address: 20774 West Pennsylvania Ave
Dunnellon, FL 34431 USA
Emergency Telephone Number: 1-800-633-8253 PERS
Date Prepared or Revised: January 2013

2. COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

Chemical Name	Concentration (Weight %)	CAS Number	OSHA Hazard
Mineral Spirits		8052-41-3	Yes

Composition Note: The remaining ingredients are designated as "trade secret".

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING! FLAMMABLE. MAY CAUSE EYE AND/OR SKIN IRRITATION. PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN SENSITIZATION.

POTENTIAL HEALTH EFFECTS

Acute

Eye Contact: Exposure during handling may cause eye irritation, swelling, or tearing.
Skin Contact: Exposure during handling may cause mild irritation.
Inhalation: Exposure to this product in excess of the applicable TVL or PEL may cause moderate irritation to the nose and respiratory evidenced by headache, dizziness, and nausea.
Ingestion: Ingestion may cause irritation to the gastrointestinal tract. Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage (sometimes referred to as "Solvent or Painter's Syndrome"). Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.
Systemic Effects: Lungs, eyes, and skin.
Chronic: Chronic effects of ingestion and subsequent aspiration into the lungs may cause pneumatocele (lung cavity) formation and chronic lung dysfunction
Medical Conditions which May be Aggravated by Inhalation or Dermal Exposure:
Known None

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. If redness, burning, blurred vision, or swelling persists, **CONSULT A PHYSICIAN.**

Skin Contact: In case of contact, remove product and immediately wash affected area with plenty of soap and water for at least 5 minutes. Do not apply greases or ointments. Remove contaminated clothing. Clean contaminated clothing with soap and water before re-use. If redness, burning, or swelling persists, **CONSULT A PHYSICIAN.**

Ingestion: **DO NOT INDUCE VOMITING.** Never administer anything by mouth to an unconscious person. Rinse out mouth with water, then drink sips of water to remove taste from mouth. **CONSULT A PHYSICIAN.** Do not leave victim unattended. If vomiting occurs spontaneously, lay victim on the side and keep head lower than waist to prevent aspiration.

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Inhalation: If respiratory irritation or distress occurs, remove victim to fresh air. If breathing is difficult, give oxygen. If breathing stop, apply artificial respiration. **CONSULT A PHYSICIAN.**

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

5. FIRE FIGHTING MEASURES

NFPA Flammability Classification NFPA Class-II combustible liquid.
Auto ignition Temperature AP 230°C (AP 446°F)
Hazardous Combustion Products Carbon dioxide, carbon monoxide, smoke, fumes, and/or unburned hydrocarbons
Flash Point Closed cup: 42°C (108°F). (Tagliabue.)
Lower Flammable Limit AP 0.6 %
Upper Flammable Limit AP 6 %
Suitable Extinguishing Media: Water fog, carbon dioxide or dry chemical, aqueous foam.
Fire And Explosion Hazards: Hazardous gases/vapors produced are carbon monoxide, carbon dioxide, and smoke. Toxic and flammable vapors may be produced under combustion. Sealed containers exposed to elevated temperatures may rupture explosively due to polymerization. Vapors are heavier than air and may travel to ignition sources and flash back. Do not allow run-off from fire fighting to enter drains or water courses.

Fire Fighting Equipment and Procedures: Wear full protective clothing and self-contained breathing apparatus for fire fighting. Isolate fuel supply from fire. Use water spray to cool fire-exposed surfaces and containers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use cautious judgment when cleaning up spill. Shut off leaks, if possible without personal risk. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.

Environmental Precautions: Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

Clean-up Methods: **Small spills:** Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal.
Large spills: Approach suspected leak areas with caution. Create a dike or trench to contain material. Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal.

Additional Information: Notify authorities if any exposures to the general public or environment occur or are likely to occur. Dispose in accordance with federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling (Personnel): To prevent skin and eyes contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Avoid breathing fumes. Handle in a well-ventilated work area.

Handling (Physical Aspects): Close container after each use. Ground drum and bond to container to prevent static spark. Keep away from heat, sparks and flames.

Storage: Keep away from: acids, oxidizing agents, heat, or flames. Store in a cool, dry, well-ventilated area in closed containers. Protect containers from physical damage.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH (TLV)	OSHA (PEL)
Mineral Spirits	100 ppm	500 ppm

Engineering Controls:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure techniques may be used to effectively minimize employee exposures.

Eye Protection:

When engaged in activities where product could contact the eye, wear safety glasses with side shields, chemical splash goggles, or face shield.

Skin Protection:

Skin contact should be minimized through use of Nitrile, neoprene or butyl gloves and suitable long sleeved clothing. Consideration must be given both to durability as well as permeation resistance.

Respirator Protection:

Use local or general ventilation to control exposures below applicable exposure limits. NIOSH or MSHA approved

Ventilation:

Use local exhaust or general dilution ventilation to control exposure within applicable limits.

Work Practice Controls:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. Wash exposed skin promptly to remove accidental splashes or contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Liquid
Color:	Transparent Colorless
Odor:	Slight hydrocarbon solvent odor
Vapor Pressure:	<0.1 kPA
Boiling Point:	318 F
Freezing Point:	N/A
Flash Point:	73°F (23°C) Closed Cup
Specific Gravity:	.8
pH:	N/A
Solubility In Water:	slight

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions To Avoid:	Incompatible chemicals, heat and open flame.
Materials To Avoid:	Strong Acids , Oxidizing agents and Alkalizers.
Hazardous Decomposition Products:	Decomposes with heat. Combustion may produce carbon monoxide, carbon dioxide, aldehydes and smoke.
Hazardous Polymerization:	Polymerization can occur when exposed to excessive heat.

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral (LD₅₀, Rat): N/E
Dermal (LD₅₀, Rabbit): > 3000 mg/kg
Inhalation (LC₅₀, Rat): >5.5 mg/l

Chronic Health Hazard: Prolonged and/or repeated exposure to high levels may lead to kidney, lung, liver, and heart damage.

Carcinogenic Classification: This product has ingredients that are listed as a carcinogen by one or more of the following NTP, OSHA, ACGIH or IARC.

12. ECOLOGICAL INFORMATION

Ecotoxicity: This product has not been evaluated.

Chemical Fate Information: No data found for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: This material is a hazardous waste by RCRA criteria (40CFR 261). Dispose of container and unused contents in accordance to local, state and federal regulations.

Container Disposal Method: Emptied container may contain product residue and should not be reused.

14. TRANSPORTATION INFORMATION

DOT/TDG **Single Packaging:**
UN Number: UN1866
Proper Shipping Name: Resin Solution
Hazard Class: 3
Packing Group: III
Label: 3 Combustible

IATA: **UN Number:** UN1866
Proper Shipping Name: Resin Solution
Hazard Class: 3
Packing Group: III
Label: 3 Combustible

IMO: **UN Number:** UN1866
Proper Shipping Name: Resin Solution
Hazard Class: 3
Packing Group: III
Flash Point: 43°C
Label: 3 Combustible

Based on the **packaging size**, the supplier may apply the basic description

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15. REGULATORY INFORMATION

US FEDERAL REGULATIONS:

OSHA Hazard Communication Standard (29CFR 1910.1200):

This product is considered a "hazardous chemical" under this regulation.

Status Under Toxic Substances Control Act (TSCA) (40 CFR 710):

All chemical(s) comprising this product are either exempt or listed on the TSCA Inventory.

EPA Reportable Quantities: Clean Water Act (40CFR Section 112): Not listed.

CERCLA Hazardous Substance (40CFR Part 302, Table 302.4): This product or refinery stream is not known to contain chemical substances subject to this statute. However, it is recommended that you contact state and local authorities to determine if there are any other reporting requirements in the event of a spill.

EPCRA Extreme Hazardous Substance (40CFR Section 302 Part 355): Not listed.

Toxic Chemical Release Inventory (TRI) Reporting -

SARA Title III Hazard Classes (40CFR 370 Sections 311 and 312):

Fire Hazard:	Yes
Reactive Hazard:	No
Release of Pressure:	No
Acute Health Hazard:	Yes
Chronic Health Hazard:	Yes

US STATE REGULATIONS:

California - "Safe Drinking Water and Toxic Enforcement Act" (Proposition 65):

This product contains chemicals that are known to the State of California to cause cancer and/or reproductive toxicity and other harm.

INTERNATIONAL REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS:

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Components of this product are listed on the Canadian DSL or NDSL inventories.

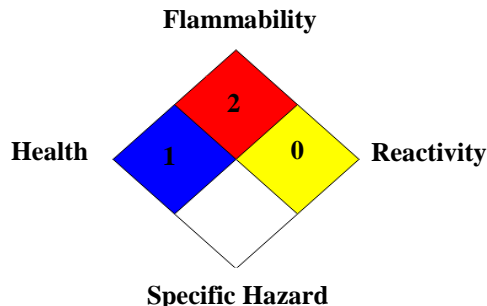
16. OTHER INFORMATION

HAZARD RATINGS:

Hazardous Material Information System (HMIS)

Health	1
Flammability	2
Physical Hazard	0
Personal Protection	B

National Fire Protection Association (NFPA)



HMIS/NFPA Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

Protective Equipment: Safety glasses, gloves

This Material Safety Data Sheet (MSDS) is prepared by Epoxy Systems, Inc. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this MSDS. This MSDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

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