MATERIAL SAFETY DATA SHEET

(OSHA 29 CFR 1910.1200)

Effective date: December 1, 2011 Page 1 of 4

**SECTION 1 – PRODUCT INFORMATION**

1. MANUFACTURER'S NAME AND ADDRESS:

VELLRATH ENGINEERING

55 Wilton Road

Plymouth, CT 06782

2. EMERGENCY TELEPHONE NUMBER:

VELLRATH ENGINEERING 860-582-6140

3. CHEMICAL NAME AND SYNONYMS

Hand-Applied Fire Resistive Patch Material.

4. CHEMICAL FAMILY:

Gypsum, Plaster, Silicates and Calcium Sulfates

5. FORMULA:

Blend of Gypsum, Limestone, Vermiculite, Fibers, and Inorganic Binders

6. RADE NAMES AND SYNONYMS:

**UNIVERSAL FIREPROOFING PATCH (UFP)**

CAS# (Chemical Abstract Service): Mixture, N/Ap

**SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

INGREDIENT TOXICITY DATA:

Common name, approx. % LD50  & LC50

Chemical name & CAS# by weight

Gypsum (Calcium Sulfate) 75 No toxicity data available

CAS# 7778-18-9

Vermiculite (Exfoliated Vermiculite Granules) 10 No toxicity data available

CAS# 1318-00-9)

Limestone (Ground Calcium Carbonate) 10 No toxicity data available

CAS# (1317-653)

Powdered Binders 5 No toxicity data available

& Fillers

**SECTION 3 – PHYSICAL/CHEMICAL CHARACTERISTICS**

1. Boiling Point (0F): N/Ap
2. Vapor Pressure (mm Hg): N/Ap
3. Vapor Density (air = 1): N/Ap
4. Solubility in Water: Negligible to slight.
5. Specific Gravity (H2O = 1): >1
6. % Volatiles: N/Ap
7. pH 7 – 9.5 (40% solution) (installed)
8. Melting point (0F): >1800
9. Evaporation Rate: N/Ap
10. Appearance and odor; Coarse, free flowing powder, beige to off-white in color with fibrous nodules, low odor.
11. Physical State: Solid

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**SECTION 4 – FIRE AND EXPLOSIVE HAZARD DATA**

1. Flash Point: N/Ap

(Method used): N/Ap

1. Flammable limits: Noncombustible
2. Extinguishing Media: N/Ap
3. NFPA Rating: N/Ap
4. Special Fire Fighting Procedures: None
5. Unusual Fire & Explosive Hazards: None known

**SECTION 5 – REACTIVITY DATA**

1. Stability Stable under normal conditions.

Conditions to avoid Contact with strong acids or excessively high heat as may be generated from welding or torch cutting.

1. Incompatibility Strong acids.

Materials to avoid Strong acids.

1. Hazardous decomposition products: As a result of incomplete combustion monomers and polymers may be off gassed. Temperatures in excess of 4000 0 F may generate SO2 . Upon complete combustion CO, CO2 may be released.
2. Hazardous Polymerization Will not occur.

Conditions to avoid N/Ap

**SECTION 6 – HEALTH HAZARD DATA**

1. Primary Routes of entry

* Inhalation:

Exposure to excessive airborne dust may cause coughing, sneezing, and dyspnea (shortness of breath and/or labored breathing). Long term inhalation of dust may alter lung function.

* Skin and Eye

Eye contact with dust may cause minor mechanical irritation. Direct eye contact with UNIVERSAL FIREPROOFING PATCG (UFP) may cause physical injury. Prolonged or repeated skin contact may dry skin.

* Ingestion

Not expected to be harmful.

1. Acute

Fibers and other nuisance particles may cause transitory skin irritation (itching) and possible irritation of eyes and upper respiratory tract.

1. Carcinogenicity

Carcinogenicity according to OSHA (USA) criteria

OSHA No

NTP No

IARC Not classified as to human carcinogenicity

1. Emergency and First Aide procedures

Eye Contact: Flush with water

Skin Contact: Wash with water. Launder clothing separate from other garments.

Inhalation: Remove to fresh air.

Ingestion: Do not induce vomiting. Seek medical attention.

NOTE: Use normal personal hygiene after contact to remove any material contaminates. If any irritations persist, seek medical attention.

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**SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE**

1. Eye Contact:

In case of contact with eyes, immediately flush eyes with plenty of water. Do not rub eyes. If blinking or tearing persist, consult a physician.

1. Inhalation:

If inhaled, get fresh air. If symptoms of irritation occur and persist, consult a physician.

1. Ingestion:

Adverse health effects are not expected if swallowed. Consult a physician if symptoms develop.

1. Steps to be taken in case material is released or spilled:

If spilled, prevent material from entering water systems

* Dry spills should be immediately swept up and place in a suitable disposal containers to prevent further release of material.
* Liquid spills should be immediately contained to minimize the extent of the spill and absorbed with an inert, noncombustible material, and placed in a suitable container to prevent further release.

1. Waste Disposal Method:

Land fill – in accordance with local, state, and federal regulations.

1. Precautions to be taken in handling and storing:

Avoid inhalation of dust during use. Avoid skin and eye contact. Use normal personal hygiene to remove material contaminates.

1. Typical waste of this product such as empty bags or buckets, and excess material are not defined as hazardous according to the U.S. EPA (40 CFR 261.3)
2. Consult all regulations (federal, state, municipal, local, etc.) or a qualified waste disposal firm when characterizing waste for disposal. Dispose of waste in accordance with all applicable regulations.

**SECTION 8 – PREVENTIVE & CONTROL MEASURES**

Warning Statements:

* May be irritating if inhaled resulting in coughing and sneezing
* Long term exposure to airborne dust may alter lung function.
* May cause minor mechanical irritation to eyes.
* Wet material falling on floors, stairs, or other surfaces will cause these surfaces to become slippery.
* Post “Slippery When Wet” signs where appropriate
* Use anti-slip surfaces when working on platforms.
* FOR PROFESSIONAL USE ONLY.
* KEEP OUT OF REACH OF CHILDREN.
* Read and understand all Health and Safety Information on the Product Label and Material Safety Data Sheets ***before*** use.

1. Respiratory Protection: Use NIOSH approved dust mask or equivalent for nuisance dust exposure in excess of the limits defined in Section 2.
2. Ventilation: Sufficient to maintain levels below TLV. Local exhaust fans may be necessary when mixing. Exhaust fans may be necessary when mixing in enclosed areas.
3. Skin Protection: Wear cloth or work gloves. Hand creams are recommended to prevent the drying of skin.
4. Eye protection: Proper eye protection is required. At a minimum, safety glasses with side shield should be worn where exposure to excessive dust or spray conditions are likely.
5. Other Protective Equipment: Wear loose fitting, long sleeve shirt and pants.
6. Work/Hygienic Practices: Use container opening and disposal procedures which minimize dust release. When mixing use covers whenever possible.

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**SECTION 9 – PREPARATION INFORMATION**

Prepared by: Research Department of Vellrath Engineering

Telephone: 1-860-582-6140

Effective date: December 1, 2011

The information contained in this Material Safety Data Sheet is applicable to the following products:

**UNIVERSAL FIREPROOFING PATCH (UFP)**

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