

**Section 1 – Identification**
**Product Name:** Fleck's Cement Powder

**Manufacturer:** Mizzy Inc.  
 A division of Keystone Industries  
 52 W King St.  
 Myerstown, PA 17067

**Chemical Name:** N/A

**Product Use:** Dental Cements

**Information Contacts:** (800)-333-3131

**Emergency Phone Numbers:** US & Canada 1 (800 )-535-5053

**Product #:** Various

**Section 2 – Hazards Identification**
**EMERGENCY OVERVIEW**

This information is based on findings from related or similar materials.

- May cause allergic skin reaction
- May cause eye irritation
- Dust may cause irritation to nose, throat, and lungs, which will disappear in 24 hours
- This product may contain particulate, not otherwise classified (Nuisance Dust).


**Potential Health Effects, Signs and Symptoms of Exposure:**
**Primary Route of Entry** Inhalation, skin, and ingestion.

**Eye** May cause eye irritation

**Skin** Repeated or prolonged exposure may cause allergic skin rashes.

**Ingestion** Higher concentration can irritate respiratory system

**Inhalation** Inhalation of high levels of cement may result in tightness of chest, metallic taste, coughing, dizziness, fever, chills, headache, nausea, and dry throat. Over exposure may produce symptoms known as metal fume fever or (zinc shakes); an acute, self limiting condition without recognized complications. Symptoms of metal fume fever include chills, fever, muscular pain, nausea, and vomiting. Like any finely divided particulate matter, cement may cause mechanical irritation to skin and eyes.

**Sub-Chronic Effects** Chronic exposure to cement may cause respiratory tract irritation with nasopharyngitis and laryngitis.

NOTE: Refer to Section 11, Toxicological Information for Details

**Section 3 – Composition/Information on Ingredients**

| Chemical Identity | CAS Numbers | EINECS#   | INCI Name       | Exposure OSHA                | Limits ACGIH                 | Carcinogen     | %   |
|-------------------|-------------|-----------|-----------------|------------------------------|------------------------------|----------------|-----|
|                   |             |           |                 | TWA/STEL                     | TWA/STEL                     | IARC/NTP/OSH A |     |
| Zinc Oxide        | 1314-13-2   | 215-222-5 | Zinc Oxide      | TWA = 15 mg / m <sup>3</sup> | N/E                          | Not Listed     | >90 |
| Magnesium Oxide   | 1309-48-4   | 215-171-9 | Magnesium Oxide | TWA = 15 mg / m <sup>3</sup> | TWA = 10 mg / m <sup>3</sup> | Not Listed     | <10 |

N/E – None

N/DA – No Data Available

Established

N/A – Not Applicable

N/R – Not Reviewed

**(items in parenthesis relate to 1999/45/EC)**
**Zinc Oxide:** Danger Symbol – GHS09 (N)

Hazard Statement: H400 (R50/53)

Precautionary Statement: P501 (S60), P273 (S61)

**Magnesium Oxide:** Danger Symbol – N/E

See Section 16 for Hazard and Precautionary Statement Key.

**Section 4 – First Aid Measures**
**First Aid for Eye** Immediately flush eyes with plenty of water for at least 15 min. occasionally lifting the upper and lower lids. Get medical help if discomfort persists.

**First Aid for Skin** Immediately flush skin with plenty of soap and water for at least 15 min. while removing contaminated clothing and shoes. Get medical help if discomfort persists.

**First Aid for Ingestion** Remove to fresh air. Get medical help if discomfort persists.

First Aid for Inhalation Remove from exposure to fresh air immediately. Get medical help if discomfort persists.

**Section 5 – Fire Fighting Measures**

| Flash Point (°F/°C) | Flammable Limit (vol%) | Auto-ignition Temperature (vol%) |
|---------------------|------------------------|----------------------------------|
| N/A                 | N/A                    | N/A                              |

**Method:**

Extinguishing Media: In case of fire use water spray, dry chemical, carbon dioxide or foam.

Fire Fighting Non-combustible

Instructions:

Unusual Hazards: Substance is noncombustible.

**Section 6 – Accidental Release Measures**

Spill or Release Procedures Shovel or vacuum up spilled product and place in closed container for disposal. Do not flush into sewer, stream, or other bodies of water or soil.

**Section 7 – Handling and Storage**

Handling Limit all unnecessary personal contact. Use appropriate PPE when handling.

Storage Store in a cool, dry place.

Explosion Hazard None.

**Section 8 – Exposure Controls / Personal Protection**

Engineering Controls Mechanical ventilation preferred to keep dust levels down.

**Personal Protective Equipment**

General To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted before using this product.

Eye/ Face Protection Use safety eyewear for protection against airborne particulate.

Skin Protection Use impermeable clothing to prevent any contact with this product, such as gloves, apron, boots, or whole body suit. Prevents skin irritation in hypersensitive individuals.

Respiratory Protection In case of insufficient ventilation or extremely dusty environments, wear suitable respiratory equipment.

**Section 9 – Physical and Chemical Properties**

| Appearance           | Odor & Odor Threshold | pH  | Specific Gravity                | Viscosity | % Volatile |
|----------------------|-----------------------|-----|---------------------------------|-----------|------------|
| Yellow, White Powder | None                  | N/A | (H <sub>2</sub> O = 1): 5.7-5.9 | N/A       | N/A        |

| Boiling Point/<br>Freezing Point | Decomposition<br>Temperature | Octanol/Water<br>Partitioning Coefficient<br>Log Po/w | Vapor<br>Pressure: | Vapor<br>Density | Evaporation<br>Rate | Ignition | Solubility<br>In Water<br>(20°C) |
|----------------------------------|------------------------------|---|--------------------|------------------|---------------------|----------|----------------------------------|
| N/A                              | N/DA                         | N/DA  | N/A                | N/A              | N/A                 | N/A      | N/A                              |

| Flash Point (°F/°C) | Flammable Limit (vol%) | Auto-ignition Temperature (vol%) |
|---------------------|------------------------|----------------------------------|
| N/A                 | N/A                    | N/A                              |

**Section 10 – Stability and Reactivity**
**Stability:**

Stable

**Hazardous Decomposition Products:**

None

**Conditions to Avoid:** Exposure to moisture or water.

**Incompatibility (Materials to Avoid):**

Acids

**Hazardous Polymerization:**

Will not occur

**Section 11 – Toxicological Information**

| Acute Oral Toxicity | Acute Dermal Toxicity | Acute Inhalation Toxicity | Irritation – skin | Irritation – Eye |
|---------------------|-----------------------|---------------------------|-------------------|------------------|
| N/DA                | N/DA                  | N/DA                      | N/DA              | N/DA             |

| Sensitization | Mutagenicity | Sub-chronic Toxicity |
|---------------|--------------|----------------------|
| N/DA          | N/DA         | N/DA                 |

**Section 12 – Ecological Information**
**Ecotoxicological Information**

| Acute Toxicity to Fish | Acute Toxicity to Invertebrates | Acute Toxicity to Algae | Bioconcentration | Toxicity to Sewage Bacteria |
|------------------------|---------------------------------|-------------------------|------------------|-----------------------------|
| N/DA                   | N/DA                            | N/DA                    | N/DA             | N/DA                        |

**Chemical Fate Information**

|                               |   |
|-------------------------------|---|
| <b>Biodegradability</b>       | N/DA. This material is not expected to bioaccumulate. |
| <b>Chemical Oxygen Demand</b> | N/DA  |

**Section 13 – Disposal Considerations**

Dispose of in compliance with governmental regulation (state and federal).

Dispose of container and unused contents in accordance with federal, state and local requirements. For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

**Section 14 – Transport Information**

|  |   |
|--|---|
| <b>DOT (49 CFR 172)</b>                      |   |
| Proper Shipping Name:                        | Non-regulated   |
| Identification Number:                       | N/A   |
| Marine Pollutant:                            | N/A   |
| Special Provisions:                          | N/A   |
| <b>Emergency Response Guidebook (ERG) #:</b> |   |
| <b>IATA (DGR):</b>                           |   |
| Proper Shipping Name:                        | UN3077, Environmentally Hazardous Substance, Solid, N.O.S. (Zinc Oxide), 9, III |
| Class or Division:                           | 9   |
| UN or ID Number:                             | UN3077  |
| Packaging Instructions:                      | III   |
| <b>Emergency Response Guidance (ICAO)#:</b>  |   |
| <b>IMO (IMDG):</b>                           |   |
| Proper Shipping Name:                        | UN3077, Environmentally Hazardous Substance, Solid, N.O.S. (Zinc Oxide), 9, III |
| Class or Division:                           | 9   |
| UN or ID Number:                             | UN3077  |
| Special Provisions & Stowage/Segregation:    | N/A   |
| <b>Emergency Schedule (EmS)#:</b>            | N/A   |
| <b>Other Information:</b>                    | N/A   |

**Section 15 – Regulatory Information**
**US Federal Regulations**

|                                     |  |
|-------------------------------------|--|
| Clean Air Act: HAP/ODS              | This product contains the following HAP's or ODS: <ul style="list-style-type: none"> <li>NONE</li> </ul>   |
| Clean Water Act: Priority Pollutant | This product contains the following chemicals listed under the U. S. Clean Water Act Priority Pollutant and Hazardous Substance List: <ul style="list-style-type: none"> <li>None</li> </ul> |
| FDA: Food Packaging Status          | This product has not been cleared by the FDA for use in food packaging and / or other applications as an indirect food-packaging additive.   |

# Material Safety Data Sheet **FLECK'S CEMENT POWDER**

|   |  |
|---|--|
| Occupational Safety and Health Act                                  | This product is considered to be hazardous under the OSHA Hazard Communication Standard. It's hazards are: <ul style="list-style-type: none"> <li>• Zinc Oxide – CAS # 1314-13-2 (Acute health hazard)</li> <li>• Magnesium Oxide – CAS # 1309-48-4 (Acute health hazard)</li> </ul>   |
| RCRA  | This product contains the following chemicals considered to be hazardous waste under RCRA ( 40 CFR 261). <ul style="list-style-type: none"> <li>• None</li> </ul>  |
| SARA Title III: Section 302 (RQ)                                    | This product contains no chemicals regulated under Section 302 as extremely hazardous substances.  |
| SARA Title III: Section 302 (TPQ)                                   | This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List): <ul style="list-style-type: none"> <li>• None</li> </ul>  |
| SARA Title III: Section 311-312:                                    | This product is considered to be hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). It's hazards are: <ul style="list-style-type: none"> <li>• Zinc Oxide – CAS # 1314-13-2 (Acute health hazard)</li> <li>• Magnesium Oxide – CAS # 1309-48-4 (Acute health hazard)</li> </ul> |
| SARA Title III: Section 313:  | This product contains the following chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: None  |
| TSCA Section 8(b): Inventory:<br><br>TSCA Significant New Use Rule: | This product does contain chemicals listed on the TSCA inventory or otherwise complies with TSCA pre-manufacture notification requirements. <ul style="list-style-type: none"> <li>• Magnesium Oxide – CAS # 1309-48-4</li> <li>• Zinc Oxide – CAS # 1314-13-2</li> </ul> None of the chemicals in this material have a SNUR under TSCA. |

## State Regulations

|   |   |
|---|---|
| CA Right-to-Know Law:<br>California No Significant Risk Rule: | Magnesium Oxide – CAS # 1309-48-4<br>Zinc Oxide – CAS # 1314-13-2<br>None |
| MA Right-to-Know Law:   | Magnesium Oxide – CAS # 1309-48-4<br>Zinc Oxide – CAS # 1314-13-2         |
| NJ Right-to-Know Law:   | Magnesium Oxide – CAS # 1309-48-4<br>Zinc Oxide – CAS # 1314-13-2         |
| PA Right-to-Know Law:   | Magnesium Oxide – CAS # 1309-48-4<br>Zinc Oxide – CAS # 1314-13-2         |
| FL Right-to-Know Law:   |   |
| MN Right-to-Know Law:   | Magnesium Oxide – CAS # 1309-48-4<br>Zinc Oxide – CAS # 1314-13-2         |

## International Regulations

|   |   |
|---|---|
| CDSL: Canadian Inventory<br>(on Canadian Transitional List) | Magnesium Oxide – CAS # 1309-48-4<br>Zinc Oxide – CAS # 1314-13-2 |
|---|---|

## Labeling according to EC directives – 1272/2008 {CLP} and 1999/45/EC (items in parenthesis relate to 1999/45/EC)

|  |   |
|--|---|
| European Community:<br> | <b>For Fleck's Cement Powder (finished product):</b> <ul style="list-style-type: none"> <li>• DANGER SYMBOLS: <b>GHS07 (Xi)</b> – Irritant. <b>GHS09 (N)</b> – Dangerous to the environment</li> <li>• HAZARD STATEMENT: <b>H317 (R43)</b>, <b>H320 (N/A)</b>, <b>H400 (R50)</b>, <b>H335 (R37)</b></li> <li>• PRECAUTIONARY STATEMENT: <b>P102 (S2)</b>, Keep out of reach of children. <b>P261 (S24)</b>, Avoid breathing dust/fume/gas mist/vapor sprays. <b>P280 (S36/37/39)</b>, Wear protective gloves/clothing/eye protection/face protection. <b>P309+314 (S45)</b>, If exposed or you feel unwell, get medical advice/attention. <b>P273 (S61)</b>.</li> </ul> |
|--|---|

**Section 16 – Other Information**
**EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):**

(items in parenthesis relate to 1999/45/EC)

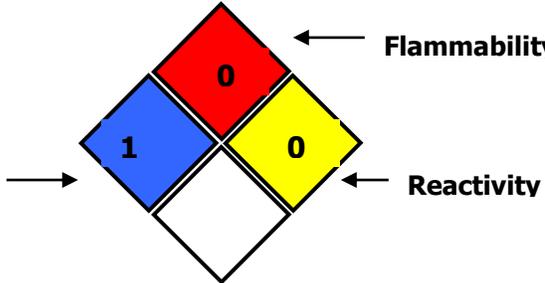
**Danger Symbols:**

GHS09 (N) – Dangerous to the Environment. GHS07 (Xi) – Warning (Irritants)

**Hazard Statement:**
**H400 (R50/53)**, Very toxic to Marine life, may cause long term effects. **H317 (R43)**, May cause allergic skin reaction. **H320 (N/A)**, Causes eye irritation. **H335 (R37)**, May cause respiratory irritation.

**Precautionary Statement:**
**P102 (S2)**, Keep out of reach of children. **P260 (S23)**, Do not breathe dust/fume/gas/mist/vapors/spray. **P261 (S24)**, Avoid breathing dust/fume/gas mist/vapor sprays. **P280 (S36/37/39)**, Wear protective gloves/clothing/eye protection/face protection. **P309+314 (S45)**, If exposed or you feel unwell, get medical advice/attention. **P305+334 (S26)**, In case of contact with eyes, rinse immediately with water. **P301+315 (S46)**, If swallowed, get immediate medical advice / attention. **P405 (S1)**, Keep locked up. **P501 (S60)**, Dispose of properly. **P273 (S61)**, Avoid release into environment.

**Hazard Rating System (Pictograms)**

|   |  |
|---|--|
| <b>NFPA:</b><br> | <b>HMIS:</b><br> |
|---|--|

|                   |  |
|-------------------|--|
| MSDS Prepared by: | WME  |
| Revision History: | 03/04/2011 Replaces prior MSDS - Completely revised. |
|                   | 03/26/2014 Reviewed, No Changes                      |

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