

Material Safety Data Sheet

FLECK'S CEMENT POWDER

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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 TWA/STEL	Limits ACGIH TWA/STEL	Carcinogen IARC/NTP/OSH A	%
Zinc Oxide	1314-13-2	215-222-5	Zinc Oxide	TWA = 15 mg / m ³	N/E	Not Listed	>90
Magnesium Oxide	1309-48-4	215-171-9	Magnesium Oxide	TWA = 15 mg / m ³	TWA = 10 mg / m ³	Not Listed	<10

N/E – None
Established
N/R – Not Reviewed

N/DA – No Data Available
N/A – Not Applicable

(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.

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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 ₂ O = 1): 5.7-5.9	N/A	N/A

Boiling Point/ Freezing Point	Decomposition Temperature	Octanol/Water Partitioning Coefficient Log Po/w	Vapor Pressure:	Vapor Density	Evaporation Rate	Ignition	Solubility In Water (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

Biodegradability	N/DA. This material is not expected to bioaccumulate.
Chemical Oxygen Demand	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

DOT (49 CFR 172)	
Proper Shipping Name:	Non-regulated
Identification Number:	N/A
Marine Pollutant:	N/A
Special Provisions:	N/A
Emergency Response Guidebook (ERG) #:	
IATA (DGR):	
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
Emergency Response Guidance (ICAO)#:	
IMO (IMDG):	
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
Emergency Schedule (EmS)#:	N/A
Other Information:	N/A

Section 15 – Regulatory Information
US Federal Regulations

Clean Air Act: HAP/ODS	This product contains the following HAP's or ODS: • NONE
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: • None
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.

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Occupational Safety and Health Act	This product is considered to be hazardous under the OSHA Hazard Communication Standard. It's hazards are: • Zinc Oxide – CAS # 1314-13-2 (Acute health hazard) • Magnesium Oxide – CAS # 1309-48-4 (Acute health hazard)
RCRA	This product contains the following chemicals considered to be hazardous waste under RCRA (40 CFR 261). • None
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): • None
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: • Zinc Oxide – CAS # 1314-13-2 (Acute health hazard) • Magnesium Oxide – CAS # 1309-48-4 (Acute health hazard)
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: TSCA Significant New Use Rule:	This product does contain chemicals listed on the TSCA inventory or otherwise complies with TSCA pre-manufacture notification requirements. • Magnesium Oxide – CAS # 1309-48-4 • Zinc Oxide – CAS # 1314-13-2 None of the chemicals in this material have a SNUR under TSCA.

State Regulations

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

International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List)	Magnesium Oxide – CAS # 1309-48-4 Zinc Oxide – CAS # 1314-13-2
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Labeling according to EC directives – 1272/2008 {CLP} and 1999/45/EC (items in parenthesis relate to 1999/45/EC)

European Community: 	For Fleck's Cement Powder (finished product): • DANGER SYMBOLS: GHS07 (Xi) – Irritant. GHS09 (N) – Dangerous to the environment • HAZARD STATEMENT: H317 (R43), H320 (N/A), H400 (R50), H335 (R37) • PRECAUTIONARY STATEMENT: P102 (S2), Keep out of reach of children. 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. P273 (S61).
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Section 16 – Other Information
EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):

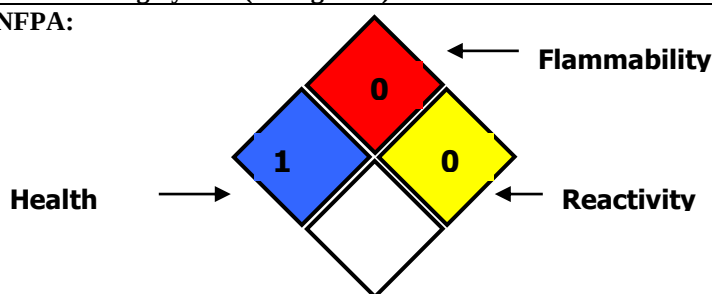
(items in parenthesis relate to 1999/45/EC)

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)
NFPA:
HMIS:


1	Health
0	Flammability
0	Reactivity

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

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