

## Supplier:

Magnaloy Coupling Company  
601 Palm Street / P.O. Box 455  
Alpena MI 49707  
(517) 356-2186

## For Additional Information contact:

Excel Polymers LLC  
14330 Kinsman Road  
Burton OH 44021  
800 424-9300

## SECTION I - PRODUCT IDENTIFICATION

CHEMICAL NAME: FKM-80 Orange  
TRADE NAME: Viton (Fluorocarbon) (FPM), 80 Durometer  
FORMULA:  
CAS NO:  
PHYSICAL FORM: Solid

## SECTION II - COMPOSITION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Calcium hydroxide	1305-62-0	1 - 5
Magnesium oxide	1309-48-4	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Calcium carbonate	471-34-1	10 - 30

## SECTION III - HAZARD IDENTIFICATION

## POTENTIAL HEALTH EFFECTS:

Routes of Exposure: Inhalation, Ingestion, Skin Contact

Acute Exposure: Inhalation: Particulates, like other inert material can be mechanically irritating  
Ingestion: May be harmful if swallowed  
Eyes: Particulates, like other inert material can be mechanically irritating  
Skin: Experience shows no unusual dermatitis hazard from routine handling

Chronic Exposure: Refer to Secion XI for Toxicological Information.

## SECTION IV - FIRST AIR MEASURES

Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt, seek medical advice.

Ingestion: Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt, seek medical advice.

Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.

Skin: Wash off with soap and plenty of water. If skin irritation persists, seek medical attention.

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SECTION V - FIRE AND EXPLOSION HAZARD DATA  
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FLASH POINT: N/A                      FLAMMABLE LIMITS:    LEL: N/A                      UEL: N/A

EXTINGUISHING MEDIA: Water spray, dry powder, foam, carbon dioxide (CO2).

SPECIAL FIRE FIGHTING PROCEDURES: Fullface self-contained breathing equipment used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (Nox), other hazardous materials, and smoke are all possible.

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SECTION VI - ACCIDENTAL RELEASE MEASURES  
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Personal precautions: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

Environmental precautions: Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.

Methods for cleaning up: Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

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SECTION VII - HANDLING AND STORAGE  
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Handling: Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.

Storage: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.

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SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION  
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Respiratory Protection:                      No personal respiratory protective equipment normally required when handling the product itself. See "Engineering Measures" section below for precautions to be taken when heating or processing this material.

Eye/Face Protection:                      Safety glasses with side-shields

Hand Protection:                              Protective gloves

Skin and Body Protection:                      Long sleeved clothing

Additional Protective Measures:                      Safety shoes

General Hygiene Considerations:                      Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after handling.

Engineering Measures:                      Heat only in areas with appropriate exhaust ventilation. Adequate ventilation and/or appropriate respiratory protection may also be necessary to minimize employee exposure to processing vapors.

## Exposure Limits:

Component	Value	Exposure Time	Exposure Type	List
Calcium hydroxide	5 mg/m <sup>3</sup>	Time Weighted Average	Dust	ACGIH
	5 mg/m <sup>3</sup>	PEL	Respirable fraction	OSHA Z1
	15 mg/m <sup>3</sup>	PEL	Total dust	OSHA Z1
Calcium carbonate	5 mg/m <sup>3</sup>	PEL	Respirable fraction	OSHA Z1
	15 mg/m <sup>3</sup>	PEL	Total Dust	OSHA Z1
	10 mg/m <sup>3</sup>	Time Weighted Average		ACGIH
Magnesium oxide	15 mg/m <sup>3</sup>	PEL	Total particulate	OSHA Z1
	10 mg/m <sup>3</sup>	Time Weighted Average	Inhalable fraction	ACGIH
Titanium dioxide	10 mg/m <sup>3</sup>	Time Weighted average		ACGIH
	15 mg/m <sup>3</sup>	PEL	Total dust	OSHA Z1

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SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

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Form:	Solid	Evaporation rate:	N/A
Appearance:	cylindrical part	Specific Gravity:	Not Determined
Color:	Red (Orange)	Bulk density:	Not established
Odor:	Characteristic rubber odor	Vapor pressure:	N/A
Melting Point:	Not determined	Vapor density:	N/A
Boiling Point:	N/A	pH:	N/A
Water Solubility:	Insoluble		

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SECTION X - STABILITY AND REACTIVITY

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Stability:	Stable
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid:	Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Incompatible Material:	Incompatible with strong acids and oxidizing agents
Hazardous decomposition:	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (Nox), other hazardous material, and smoke are all possible.

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 SECTION XI - TOXICOLOGICAL INFORMATION  
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This material has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview: This product contains the following components which in their pure form have the following characteristics.

CAS-No.	Chemical Name	Effect	Target Organ
1305-62-0	Calcium hydroxide	Irritant	Eyes, Skin, Respiratory system
		Systemic effects	Eyes, Skin, Respiratory system
1309-48-4	Magnesium oxide	Irritant	Eyes, Skin, Respiratory system
		Systemic effects	Eyes, Respiratory system
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system
471-34-1	Calcium carbonate	Irritant	Eyes, Skin

LC50 / LD50: This product contains the following components which, in their pure form, have the following toxicity data

CAS-No.	Chemical Name	Route	Value	Species
1305-62-0	Calcium hydroxide	Oral LD50	7,340 mg/kg	rat
1309-48-4	Magnesium oxide	Oral LD50	810 mg/kg	mouse
471-34-1	Calcium carbonate	Oral LD50	6,450 mg/kg	rat

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 SECTION XII - ECOLOGICAL INFORMATION  
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Persistence and degradability: Not readily biodegradable  
 Environmental Toxicity: Chemical are not readily available as they are bound within the polymer matrix  
 Bioaccumulation Potential: Chemical are not readily available as they are bound within the polymer matrix  
 Additional Potential: Not applicable

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 SECTION XIII - DISPOSAL CONSIDERATIONS  
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Product: Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state and local regulations.  
 Contaminated packaging: Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state and local regulations.

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 SECTION XIV - TRANSPORT INFORMATION  
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US DOT Classification: Refer to specific regulation  
 ICAO/IATA (air): Refer to specific regulation  
 IMO / IMDG (maritime): Refer to specific regulation

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 SECTION XV - REGULATORY INFORMATION  
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## US Regulations:

OSHA Status: Classified as hazardous based on components  
 TSCA Status: All components of this product are listed on or exempt from the TSCA Inventory.

US EPA CERCLA Hazardous Substances (40 CFR 302): Not applicable

California Proposition 65: This product does not contain a substance listed by California Prop 65.

SARA Title III Section 302 Extremely Hazardous Substance: Not applicable

SARA Title III Section 313 Toxic Chemicals: Not applicable

## Canadian Regulations:

National Pollutant Release Inventory (NPRI) Not applicable

WHMIS Classification: D2B

WHMIS Ingredient Disclosure List:

CAS-No
1305-62-0
1309-48-4

DSL: All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

## National Inventories:

Australia AICS: Listed

China IECS: Listed

Europe EINECS: Listed

Japan ENCS: Not determined

Korea KECI: Listed

Philippines PICCS: Listed

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 SECTION XVI - OTHER INFORMATION  
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material when used in combination with any other materials and/or in any particular process or processing conditions.