MISSION RUBBER COMPANY

SAFETY DATA SHEET

for Mission Rubber FKM Chemical Couplings

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SAFETY DATA SHEET

FKM

Section 1: IDENTIFICATION

1.1 Product identifier
Product name: FKM-70-LPC
Product part number: EL30011177OS
CAS number: Mixture
Chemical Name: Mixture
Product type: Solid

1.2 Relevant identified uses of the substance or mixture and uses advised against
Product use: Industrial Applications

1.3 Details of the supplier of the safety data sheet
Mission Rubber Company
1660 Lesson Lane
Corona, CA 92879

1.4 Telephone number: 800-854-9991

Section 2: HAZARD IDENTIFICATION

2.1 Precautionary statements
Prevention: This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.

Chronic exposure: Refer to Section 11 for Toxicological Information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name and Synonyms	CAS Number	Amount
Magnesium oxide	Magnesium oxide	1309-48-4	5% - 10%
Carbon black	Carbon black	1333-86-4	10% - 30%

Occupational exposure limits are listed in Section 8.

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures
Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.

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.

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

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

Section 5: FIREFIGHTING MEASURES

5.1 Suitable Extinguishing media: water spray, dry powder, foam, carbon dioxide (CO2) none.

5.2 Unusual Fire/Explosion Hazards: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

5.3 Special fire-fighters procedures: Full-face self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Minimal problems with spills of this product would be expected to occur because of its solid form.

6.2 Personal precautions, protective equipment and emergency procedures
Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

6.3 Environmental precautions
Should not be released into the environment.

6.4 Methods and materials for containment and 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.

Section 7: HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling
Take measures to prevent the buildup of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.

7.2 Conditions for safe storage, including any incompatibilities:
Keep in a dry, cool place.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control Parameters

Occupational Exposure Limits

Product/Ingredient Name	Value	Exposure Time	Exposure Type	List
Carbon black	3.5 mg/m3	Time Weighted Average (TWA):	Total dust. as carbon black	ACGIH
	3.5 mg/m3	PEL:	Total dust. as carbon black	OSHA Z1
Magnesium oxide	15 mg/m3	PEL:	Total particulate.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):	Inhalable fraction.	ACGIH

8.2 Exposure controls

Individual protection measures

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Eye/face protection: Safety glasses with side-shields.

Skin protection

Hand protection: Protective gloves.

Skin and body protection: Long sleeved clothing.

Additional Protective Measures: Safety shoes.

Respiratory protection: No personal respiratory protective equipment normally required when handling the product itself.

Environmental exposure controls: Should not be released into the environment.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Slabs, sheets
Form:	Solid
Color:	Black
Odor:	Characteristic rubber odor
pH:	Not applicable
Melting point/freezing point:	Not determined.
Boiling point:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not applicable
Specific Gravity:	Not determined
Bulk density:	Not established
Upper/lower flammability or explosive limits:	Not applicable
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Water solubility:	Insoluble
Auto-ignition temperature:	Not applicable

9.2 Other information

No additional information.

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity: Not applicable**.**

10.2 Chemical stability: Stable.

10.3 Hazardous Polymerization: Will not occur.

10.4 Conditions to avoid: Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.

10.5 Incompatible materials: Incompatible with strong acids and oxidizing agents.

10.6 Hazardous decomposition products: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

This mixture 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.

LC50 / LD50

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

Acute toxicity

Product/ Ingredient name	CAS No.	Result	Species	Value	Exposure
Magnesium oxide	1309-48-4	Oral LD50	mouse	810 mg/kg	-
Carbon black	1333-86-4	Oral LD50 Dermal LD50	rat rabbit	> 15,400 mg/kg > 3 gm/kg	-

Toxicity Overview

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

Specific target organ toxicity

Product/ Ingredient name	CAS No.	Effect	Target Organs
Magnesium oxide	1309-48-4	Systemic effects	Eyes, Respiratory system.
		Irritant	Eyes, Skin, Respiratory system.
Carbon black	1333-86-4	Systemic effects	Eyes, Respiratory system.

Information on the likely routes of exposure: Inhalation, Ingestion, Skin contact

Potential acute health effects

Inhalation: Particulates, like other inert materials can be mechanically irritating.

Ingestion: May be harmful if swallowed.

Skin contact: Experience shows no unusual dermatitis hazard from routine handling.

Eye contact: Particulates, like other inert materials can be mechanically irritating.

Medical Conditions Aggravated by Exposure: None Know.

Additional Health Hazard Information:

Carbon black 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "Carbon Black is possibly carcinogenic to humans (Group 2B). The IARC 2B listing only pertains to airborne, unbound carbon black particles of respirable size. Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.

Section 12: ECOLOGICAL INFORMATION

12.1 Persistence and degradability: Not readily biodegradable.

12.2 Bio-accumulative potential: Chemicals are not readily available as they are bound within the polymer matrix.

12.3 Environmental Toxicity: Chemicals are not readily available as they are bound within the polymer matrix.

12.4 Additional advice: Not applicable.

Section 13: DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

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/provincial and local regulations.

Contaminated Packaging

Preferred options for disposal is recycling when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

Section 14: TRANSPORT INFORMATION

U.S. DOT Classification:	Refer to specific regulation.
ICAO/IATA (air):	Refer to specific regulation.
IMO / IMDG (maritime):	Refer to specific regulation.

Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

State Regulations (U.S.)

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

National Inventories:

Australia AICS:	Not determined
China IECS:	Not determined
Europe EINECS:	Not determined
Japan ENCS:	Not determined
Korea KECI:	Not determined
Philippines PICCS:	Not determined

International regulations

Canadian Regulations:

National Pollutant Release Inventory (NPRI): Not applicable

WHMIS Classification: D2A

WHMIS Ingredient Disclosure List:

CAS-No.
1333-86-4
1309-48-4

DSL: DSL status has not been determined. Quantity use in Canada may be restricted by regulations.

Section 16: OTHER INFORMATION

Notice to reader

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Responsibility for MSDS:	**Mission Rubber Company**
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Telephone:	**800-854-9991**

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