

FKR-2275 MATERIAL SAFETY DATASHEET

SECTION 1: IDENTIFICATION OF SUBSTANCE

Product Identifier : Identification on the label/ Trade name: FKR-2275 Series Recycled/Reclaim FKM

Manufacturer : Manufactured by Fanilo Incorporated
Hsinchu Factory: No. 23, Ln. 434, Sec. 4, Zhonghua Rd., Xiangshan Dist., Hsinchu City 30094, Taiwan

Relevant Identified Uses of the Substance and Uses Advised Against

Identified Uses:

Recycled FKM sheets, can be used directly or as a filler blended with virgin FKM rubber compounds. In both cases, the performance matches that of virgin FKM. However, when used for direct production, there is a slightly higher possibility of burrs forming.

Uses Advised Against:

Other elastomers rather than bisphenol-cured FKM, e.g., peroxide-cured FKM, EPDM, etc.

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance

or Mixture : **Classification:**
This product is not classified as hazardous according to the Regulations for the Labeling and Safety Data Sheets for Toxic and Concerned Chemical Substances in Taiwan.

Label Elements:

- Hazard Pictograms: Not Applicable.
- Signal Word(s): Not Applicable.
- Hazard Statement: Not Applicable.
- Precautionary Statement: Not Applicable.

Precautionary Statements : **Prevention:**

- Keep away from heat, sparks, and open flames.
- Avoid contact with strong oxidizing agents.
- Store in a cool, well-ventilated place.
- Use appropriate engineering controls to minimize exposure.
- Wear appropriate personal protective equipment (PPE), including gloves and eye/face protection.

Response:

- In case of skin contact, wash with plenty of water and soap.
- In case of eye contact, rinse cautiously with water for several minutes.
- If exposed to fumes, move to fresh air immediately.
- If ingested, seek medical attention.

Storage:

- Store in a tightly closed container.
- Keep away from incompatible materials.
- Store away from direct sunlight and heat sources.

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Disposal: Dispose of in accordance with local, regional, and national regulations.

Other Hazards: Not available.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture : The product is Recycled FKM, specifically engineered for blending with FKM rubber compounds to ensure consistent performance. The decision to include additional fillers or crosslinkers is left to your discretion and should be assessed based on your or customer's specific requirements.

Ingredients :

Chemical Description	CAS NO.	Amount (%)
Fluorogum FKM	-	67.3
Carbon Black N	1333-86-4	17.0
Carbon Black MT	1333-86-4	6.7
Calcium hydroxide	1305-62-0	3.8
Magnesium oxide	1309-48-4	2.95
Carnauba wax	8015-86-9	2.25

SECTION 4: FIRST-AID MEASURES

Description of First Aid

Measures :

In Case of Inhalation: FKR-2275 is provided in sheet form and does not produce easily inhalable small particles. If inhalation occurs during grinding or transforming the product, promptly relocate the affected person to an area with fresh air. If recovery is not rapid, obtain medical attention.

In Case of Skin Contact: Wash the affected parts with soap and water. No emergency measures are necessary, but if adverse skin effects follow, refer for medical attention.

In Case of Eye Contact: Flush eyes immediately with clean, fresh water for a minimum of 15 minutes, holding the eyelids open. If adverse eye effects follow, refer for medical attention.

In Case of Ingestion: Do not induce vomiting. If adverse health effects follow, refer for medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed:

Respiratory Irritation: Inhalation of airborne particles from FKR-2275 may cause respiratory irritation, leading to symptoms such as coughing, sneezing, or difficulty in breathing.

Delayed Effects: Exposure may lead to delayed allergic reactions in hypersensitive individuals, including skin rashes, itching, or other allergic symptoms.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

No specific requirement.

SECTION 5: FIRE-FIGHTING MEASURES

General Restrictions : When the solid material reaches or exceeds its flash point (>230°C), it can ignite. Thermal decomposition may release flammable or toxic gases.

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- Extinguishing Media** : On large fires, use dry chemical, foam, or water spray. On small fires, use carbon dioxide (CO₂), dry chemical, or water spray.
- Specific Hazards Arising from the Substance or Mixture** : Toxic by-products, including hydrogen fluoride and toxic fluorocarbon olefins, may be found above 205°C and during combustion.
- Advice for Firefighting Measures** : Wear self-contained breathing apparatus and protective clothing. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire-exposed containers cool.
- Products of Combustion** : May produce carbon monoxide (CO) and irritating fumes under lack of oxygen conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions, Protective Equipment, and Emergency Procedures** : **For Non-Emergency Personnel:** Avoid sources of ignition and ventilate the area. Exclude all non-essential personnel. Avoid breathing the dust or smoke.
For Emergency Responders: Ensure personnel wear suitable PPE, including gloves and safety goggles.
- Environmental Precautions** : Consider recycling and sustainable practices for managing FKR-2275 waste. FKR-2275 is designed to be recycled again in an infinite cycle.
- Methods of Containment and Cleaning Up** : Use barriers or absorbent materials to encircle and isolate the spilled material. Carefully collect the material using non-sparking tools or equipment and place it into appropriate containers, ensuring proper labeling. Avoid creating dust or airborne particles.
- Reference to Other Sections** :
- See Section 7 for information on safe handling.
 - See Section 8 for information on personal protective equipment.
 - See Section 13 for information on disposal.

SECTION 7: HANDLING AND STORAGE

- Precautions for Safe Handling** : Maintain safe handling practices for FKR-2275. Adhere to good housekeeping standards and ensure regular, safe removal of waste materials. Use standard hand and eye protection, especially in cases involving manual handling. Follow all relevant safety regulations.
- Conditions for Safe Storage, Including Any Incompatibilities** : Store in a dry place, avoiding sources of heat or ignition. Suggested storage temperature is below 38°C.
- Specific End Use(s)** : Contact our team for advice on specific end uses or applications.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- Control Parameters** : National critical values are yet to be formally established.
- Exposure Controls** : **Appropriate Engineering Controls:** Implement local exhaust ventilation systems to minimize airborne dust or particles.
- Individual Protection Measures:** Wear safety goggles and heat-resistant gloves, sleeves, and face masks when handling heated materials.
- Environmental Exposure Controls:** Avoid wind or airborne dispersal.
- Emergency Response:** Establish procedures for handling respiratory protection in emergencies.
- Regulatory Compliance:** Comply with local, national, and international regulations governing respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical

and Chemical Properties

Property	Value
Appearance	Solid, in sheet form
Physical state	Solid
Colour	Customizable, typically in Black or Brown
Odour	Odorless
pH	6.0-10.0
Water Solubility	No
Flash Point (°C)	>230°C
Evaporation Rate	Not determined
Flammability Limits in Air	Not determined
Auto Ignition Temperature	Not determined
Vapour Pressure	Not determined
Liquid Viscosity	Not determined
Freezing/Melting Point	Not determined
Boiling Point	Not determined

- Physical Hazards** : **Eye Contact:** Particles can scratch the eye surface/lead to physical stimuli.
- Skin Contact:** Exposed to hot material may cause thermal burns.
- Ingestion:** At ambient temperatures (-18-38°C), ingestion is not considered dangerous.
- Inhalation:** Not dangerous in normal industrial use.

SECTION 10: STABILITY AND REACTIVITY

- Reactivity** : Not classified as a reactivity hazard.
- Chemical Stability** : Stable under recommended handling and storage conditions.
- Possibility of Hazardous**
- Reactions** : None known under normal processing.
- Conditions to Avoid** : Avoid exposure to extreme heat, sparks, open flames, and strong oxidizing agents.
- Incompatible Materials** : Avoid contact with strong oxidizers.

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Hazardous Decomposition

Products : Thermal decomposition may release hazardous gases.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological

Effects : **Acute Toxicity:** Inhalation of dust or fumes may cause respiratory irritation. FKR-2275 is considered non-toxic under normal conditions of use.

Skin Corrosion/Irritation: May cause skin irritation on prolonged or repeated exposure.

Serious Eye Damage/Irritation: Contact with particles may cause mechanical irritation.

Respiratory or Skin Sensitization: May cause respiratory irritation or skin sensitization in sensitive individuals.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: Not classified as a carcinogen.

Reproductive Toxicity: No data available.

STOT-Single Exposure: Not classified as causing organ toxicity from a single exposure.

STOT-Repeated Exposure: Not classified as causing organ toxicity from repeated exposure.

Aspiration Hazard: Not considered an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity : Not classified as hazardous to the environment.

Persistence and Degradability : Biodegradation data not available.

Bio accumulative Potential : Not expected to bioaccumulate.

Mobility in Soil : Low mobility in soil.

Results of PBT and vPvB

Assessment : Not classified as persistent, bioaccumulative, and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Other Adverse Effects : No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods : **Product Waste:** Dispose of in accordance with local, regional, and national regulations. Consider recycling options wherever possible.

Packaging Waste: Dispose of packaging in accordance with local regulations, considering recycling and recovery options.

Recommendations : Contact licensed waste disposal services for proper disposal methods.

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SECTION 14: TRANSPORT INFORMATION

UN Number	: Not applicable.
UN Proper Shipping Name	: Not applicable.
Transport Hazard Class(es)	: Not classified as a hazardous material.
Packing Group	: Not applicable.
Environmental Hazards	: Not classified as hazardous to the environment.
Special Precautions for User	: Not applicable.
Transport in Bulk According to Annex II of MARPOL and the IBC Code	: Not applicable.

SECTION 15: REGULATORY INFORMATION

<u>Safety, Health, and Environmental Regulations/Legislation Specific for the Substance</u>	: Comply with applicable local, national, and international regulations.
<u>Chemical Safety Assessment</u>	: No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Date of Issue	: 2023/11/16
Review Date	: 2024/11/19
Revision	: 2024/8/26
Prepared by	: Hank Fan
Additional Information	: This MSDS summarizes to our best knowledge the health and safety hazards information of the product and how to safely handle and use the product in the workplace. The information contained herein is offered in good faith, but no warranty, expressed or implied, is made. Consult our team for further assistance.

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