1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Product Name: FKM (Viton®) ERIKS compounds
MSDS N°: V0003
Chemical Name: Fluorinated Elastomer
Company: ERIKS bv
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1812 RL Alkmaar
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature (preparation)

Description:
Vinylidene fluoride-hexafluoropropene polymer (CAS number: 9011-17-0)
Material is not known to contain Toxic Chemicals under Section 313 of Title III of

3. HAZARDS IDENTIFICATION

Potential Health Effects
Skin contact with material may cause skin with discomfort or rash. Significant
skin permeation and systemic toxicity after contact appears unlikely. There are no
reports of human sensitization.
Inhalation of fumes from burning polymer may cause temporary lung irritation
effects with cough, discomfort, difficulty breathing, or shortness of breath. Higher
exposures to fumes from burning material may cause pulmonary edema (body
fluid in lungs) with cough, wheezing, abnormal lung sounds possibly progressing to
severe shortness of breath and blush discoloration of the skin. Symptom may be
delayed. Prompt medical attention is required.
Smokers should avoid contamination of tobacco products with polymer and should
wash their hands before smoking.

Carcinogenicity Information
None of the components present in this material at concentrations equal to or
greater than 0,1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
4. FIRST AID MEASURES

Inhalation
If exposed to fumes from overheating or combustion, move to fresh air; Consult a physician if symptoms persist.

Skin Contact
Wash with soap and water.

Eye Contact
Flush eyes with plenty of water. Consult a physician if symptoms persist.

Ingestion
No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

5. FIRE FIGHTING MEASURES

Flammable properties
Flash point: > 204°C / 399°
Method: Open cup

Fire and Explosion hazards
Hazardous gasses/vapors produced in fire are hydrogen fluoride (HF), carbonyl fluoride, carbon monoxide, low molecular weight fluorocarbons.

Extinguishing Media
Water, Foam, Dry Chemical, CO₂

Fire Fighting Instructions
Wear self-contained breathing apparatus. Wear full protective equipment. Does not burn without an external flame. Protect from hydrogen fluoride fumes which react with water to form hydrofluoric acid. Wear Neoprene gloves when handling refuse from a fire.

6. ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)
Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Spill Clean up
Sweep up to avoid slipping hazard.
7. HANDLING AND STORAGE

Handling
Protect against fire.

Storage
Store in cool and dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls
Ventilation:
Vapors and fumes liberated from compounds during hot cured processing should be exhausted from work areas to maintain hydrogen fluoride concentration below the PEL.

Personal Protective Equipment
Respirators:
When temperature exceeds 200°C and ventilation is inadequate to maintain concentration below exposure limits, use a positive pressure air supplied respirator. Air purifying respirators may not provide adequate protection.

Protective Clothing:
If there is potential contact with hot/molten material, wear heat resistant clothing and footwear. Do not touch decomposed parts even when cool. Neoprene gloves recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Data:
- Melting Point: NA
- % Volatiles: NA
- Solubility in Water: insoluble
- Odor: None
- Color: Black
- Appearance: Solid
- Specific Gravity: 1.82
10. STABILITY AND REACTIVITY

Chemical Stability
Stable at normal temperature and storage condition.

Conditions to avoid
Temperatures above 200°C

Incompatibility with other materials
Incompatibility with finely divided metals such as aluminium.
Compounding with metal powers presents an explosion hazard.

Decomposition
Hazardous decomposition products: Hydrogen fluoride (HF) and perfluorolefins.

If the finish part is used or tested at temperature above 316°C, the surface of the parts may contain HF or HF condensate, which may cause severe burns, sometimes with symptoms delayed for several hours. Wear Neoprene or PVC (if temperature is below melting point of PVC) gloves when handling parts or equipment after exposure to such high temperatures. If condensate is expected, wash equipment and parts well with limewater (calcium hydroxide solution). Discard gloves after handling degraded these parts.

11. ECOLOGICAL INFORMATION

Ecotoxicological information
Aquatic toxicity: No information is available.
Toxicity is expected to be low based on insolubility in water.

12. DISPOSAL CONSIDERATIONS

Waste disposal
Preferred options for disposal are (1) recycling, (2) incineration with energy recovery, and (3) landfill. The high fuel value of this product makes option 2 very desirable for material that cannot be recycled, but incinerator must be capable of scrubbing out acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.
13. TRANSPORTATION INFORMATION

Shipping information
DOT
Proper shipping name: not regulated
Hazard class: not regulated

14. REGULATORY INFORMATION

U.S. Federal Regulations
TSCA Inventory Status: In compliance with TSCA Inventory requirements for commercial purposes.
State Regulations (U.S.): No substances on the state hazardous substances list are used in this compound.

15. OTHER INFORMATION

Additional Information
Medical use: Do not use in medical applications involving permanent implantation in human body.

Important Note:
This information is furnished without warranty, expressed or implied, as to accuracy or completeness. This information is obtained from various sources including the manufacturer and other third party sources. The safety data sheet only describes the products in aspect to their safety requirements.
FOR MORE INFORMATION:

Consult: www.O-ring.info for more technical compound info and the address of the nearest ERIKS location.