

**SAFETY DATA SHEET**

Ref. No. : SDS-E-4-74-A

Revised: October 27, 2017

**1. Product identification**

Product name : SUMIMARK SM3-60

Figuration: Plastic tube (This product is an Article. This product is not a chemical Substance or Mixture.)

Recommended use of the product: Electrical insulation , etc.

Restrictions on use:

Supplier : Sumitomo Electric Fine Polymer, Inc. (SFP)

950,1-chome, Asashiro nishi, Kumatori-Cho, Sennan-Gun, Osaka, 590-0458, JAPAN

(Tel) 072-452-7192, (Fax) 072-452-7195

Emergency Tel. No.: For SFP subsidiary company

Sumitomo Electric Interconnect Products, Inc.

915 Armorlite Drive, San Marcos, CA 92069, U.S.A.

(Tel) 760-761-0600, (Fax) 760-761-0620

Sumitomo Electric Schruppf-Produkte GmbH

Oststrasse 89, D-22844 Norderstedt, Germany

(Tel) 40-526-5010, (Fax) 40-526-4808

Sumitomo Electric Fine Polymer (Suzhou) LTD.

NO.232 Jinfeng Road, Suzhou New District, Suzhou, Jiangsu, 215129

(Tel) 0512-8918-6680, (Fax) 0512-8918-6686

Sumi-Pac Corporation

8th Fl. No.34, Chung Shann, North Road Section 3., Taipei 104, Taiwan R.O.C.

(Tel) 2-2599-7382, (Fax) 2-2599-7377

**2. Hazards identification**

GHS classification

Physical hazards:

1. Explosives . . . Not applicable
2. Flammable gases (including chemically unstable gases) . . . Not applicable
3. Aerosols . . . Not applicable
4. Oxidizing gases . . . Not applicable
5. Gases under pressure . . . Not applicable
6. Flammable liquids . . . Not applicable
7. Flammable solids . . . Not classified
8. Self-reactive substances and mixtures . . . Not applicable
9. Pyrophoric liquids . . . Not applicable
10. Pyrophoric solids . . . Not classified
11. Self-heating substances and mixtures . . . Not applicable
12. Substances and mixtures which, in contact with water, emit flammable gases . . . Not applicable
13. Oxidizing liquids . . . Not applicable
14. Oxidizing solids . . . Not classified
15. Organic peroxides . . . Not applicable
16. Corrosive to metals . . . Not classified

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## Health hazards:

1. Acute toxicity . . . No data
2. Skin corrosion/irritation . . . No data
3. Serious eye damage/eye irritation . . . No data
4. Respiratory or skin sensitization . . . No data
5. Germ cell mutagenicity . . . No data
6. Carcinogenicity . . . No data
7. Reproductive toxicity . . . No data
8. Specific target organ toxicity-single exposure . . . No data
9. Specific target organ toxicity-repeated exposure . . . No data
10. Aspiration hazard . . . Not applicable

## Environmental hazards

1. Hazardous to the aquatic environment . . . No data
2. Hazardous to the ozone layer . . . No data

## Other hazards:

If the product is overheated or burned, harmful vapors may be formed.

**3. Composition/ Information on ingredients**

Product type: Article

Composition:

Substance name	CAS No.	Rate(wt%)
Crosslinked fluoroelastomer	-	> 95
Other	Confidential	< 5

**4. First aid measures**

Inhalation : If vapors from the burning or overheated product are inhaled, provide fresh air. If symptoms are not reduced, seek medical advice.

Skin contact: If the heated product contacts skin, remove the product immediately. If there is evidence of reddening or burn, seek medical advice.

Eye contact : If the heated product contacts eyes, rinse thoroughly with plenty of water for at least 15 minutes and seek medical advice.

Ingestion : Seek medical advice.

**5. Fire-fighting measures**

Recommended extinguishing methods: Suitable extinguishing media: Water spray, dry powder, CO<sub>2</sub> foam

Fire extinguishing method that should be avoided:

Specific hazards:

Precautions for firefighters: To wear a protective mask

**6. Accidental release measures**

No risk at room temperature.

It can be recovered by hand.

Avoid contact with organic solvents to melt the fluoroelastomer material.

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### 7. Handling and storage

Handling : No special handling advice required.  
 Storage : Store at room temperature in unopened packs to avoid direct sunlight.

### 8. Exposure controls/personal protection

Exposure limit values: Without information. (In a normal state without the exposure.)  
 Personal protection equipment : Under normal handling, not necessary.  
 Respiratory protection : Under normal handling, not necessary.  
 Hand protection : Gloves may be required to handle the product, when hot.  
 Eye protection : Under normal handling, not necessary.  
 Other protection : Under normal handling, not necessary.  
 During thermal contraction work: Do the work wear heat-resistant gloves at the location of the local exhaust system.

### 9. Physical and chemical properties

Appearance(physical state): Tube (solid )  
 Color: Black and White  
 Upper/lower flammability or explosive limits: No data  
 Odor: Slight odor  
 Vapor pressure: Not applicable  
 Odor threshold: No data  
 Vapor density: Not applicable  
 pH: Not applicable  
 Relative density: 1.9 nominal  
 Melting point/range : The material has melting point, 150 °C nominal, but it will not flow over the melting temperature due to the cross-linked structure  
 Solubility(ies): Small in water  
 Initial boiling point and range: No data  
 Flash point: 350 °C nominal  
 Evaporation: Not applicable  
 Flammability(solid,gas): No data  
 Partition coefficient:n-octanol/water: No data  
 Auto-ignition temperature: 400 °C nominal  
 Decomposition t temperature and: No data  
 Viscosity: Not applicable  
 Pyrophoric gas: It does not occur under normal handling  
 Asphyxiant: Not applicable  
 Flammable dust: It does not occur under normal handling

### 10. Stability and Reactivity

Stability : Stable at normal conditions. Recommended max. operating temperature is 200 °C.  
 Do not heat over 300 ° C to avoid harmful vapors which may be formed at high temperatures.  
 Material to avoid : None  
 Hazardous decomposition products : None under normal conditions. If the product is overheated or burned, harmful vapors(e.g. carbon monoxide and hydrogen halides) may be generated.

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**11. Toxicological information**

Acute toxicity: Unknown  
Skin : Not irritating, but the heated product has potential to cause thermal burn.  
Eyes : If the product is overheated or burned, vapors may irritate eyes.  
Inhalation : Harmful vapors produced by overheating or burning may cause irritation to the upper respiratory tract.  
Ingestion : Not digestible.  
Further information : During heating process of the product, slight plastic smell may cause discomfort for susceptible persons.

**12. Ecological information**

Biodegradability: Unknown (No data)  
Aquatic toxicity: Unknown (No data)  
Further information : Unknown (No data)

**13. Disposal considerations**

Proper disposal container: Special container is not required.  
Appropriate disposal methods: Please properly disposed of in accordance with local laws and regulations.

**14. Transport information**

Not classified as dangerous with regard to the transport regulation.

**15. Regulatory information**

TSCA ··· Not applicable (By reason of article).

**16. Other information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its 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 property assurances. The information relates only to the specific material designed and may not be valid for such a material used in combination with any other materials or in any process, unless specified in this text.