Material: Mosites #1047
Version 2.0
Revision Date: 01-04-18

Section 1  Product and Company Identification

Trade Name     Mosites #1047
Product Group   Viton Fluoroelastomer
Manufacturer    Mosites Rubber Company
                2720 Tillar Street
                Fort Worth, Texas 76107
                USA
Customer Information   Tel (817) 335-3451, Fax (817) 870-1564
                       www.mositesrubber.com
Emergency Telephone no.   (817) 335-3451
Office hours:   7:30am-5pm CST Monday-Thursday, 8am-3:30pm CST Friday

Section 2  Hazards Identification

Potential Health Effects

Eyes
   Barium sulfate  May irritate eyes.  Dust may cause mechanical irritation with tearing, pain or visual impairment.

Inhalation
   1-Propene, 1,1,2,3,3,3-Hexafluoro-, polymer
   With 1,1-difluoroethene
   And tetrafluoroethene  Inhalation of decomposition products from overheating may cause lung irritation or shortness of breath.  Fluid in the lungs with coughing, wheezing, abnormal lung sounds, possibly progressing to severe shortness of breath and bluish discoloration of skin.

Repeated exposure
   Barium sulfate  lung effects

Target Organs
   Barium sulfate  Lungs
Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

### Section 3 Composition/information on ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene and tetrafluoroethene</td>
<td>25190-89-0</td>
<td>&gt;98%</td>
</tr>
<tr>
<td>Barium sulfate</td>
<td>7727-43-7</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

### Section 4 First-aid Measures

**Inhalation**

Remove to fresh air. Seek medical attention if irritation persists.

**Skin Contact**

Wipe away excess material then wash with soap and water. Seek medical attention if irritation persists.

**Eye Contact**

Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

**Ingestion**

If victim is conscious: drink water as a precaution. Consult a physician.

**General Advice**

When symptoms persist or in all cases of doubt seek medical advice.

### Section 5 Fire-fighting Measures

Flammable properties

flash point: >204°C (>399°F) open cup

Fire and Explosion hazards

Burning produces noxious and toxic fumes.

Suitable extinguishing media

Carbon dioxide (CO2), foam, water, dry chemical
Firefighting Instructions

Wear self-contained breathing apparatus and protective suit. Wear Neoprene gloves during cleaning up after a fire. Evacuate personal to safe areas. Do not allow run-off from fire fighting to enter drains or water courses. The solid polymer can only be burned with difficulty.

Section 6  Accidental Release Measures

Personal precautions

Wear proper protective gear.

Containment

Prevent material from entering drains or water courses.

Methods for clean up

Sweep up to avoid a slipping hazard while observing all environmental regulations.

Section 7  Handling and Storage

Handling

Protect from contamination. Provide appropriate exhaust ventilation to prevent dust build-up. Wash hands immediately after handling product. When using do not eat, drink, or smoke.

Storage

Store in a clean, dry location away from heat or flames.

Section 8  Exposure controls and personal protection

Ventilation

Mechanical ventilation in confined areas is recommended.

Personal Protective Equipment

Respiratory  not normally required with ventilation

Hand  as required by company policy

Eye  as required by company policy

Hygiene  wash with soap and water after contact
Exposure Guidelines
Exposure Limit Values

Hydrogen fluoride (anhydrous)

<table>
<thead>
<tr>
<th>PEL:</th>
<th>(OSHA)</th>
<th>2.5mg/m³</th>
<th>8 hr. TWA as F</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL:</td>
<td>(OSHA)</td>
<td>3 ppm</td>
<td>TWA</td>
</tr>
<tr>
<td>TLV</td>
<td>(ACGIH)</td>
<td>0.5 ppm</td>
<td>TWA as F</td>
</tr>
<tr>
<td>TLV</td>
<td>(ACGIH)</td>
<td>2 ppm</td>
<td>TLV_C as F skin</td>
</tr>
</tbody>
</table>

Biological Exposure Indices
Hydrogen fluoride (anhydrous)

<table>
<thead>
<tr>
<th>BEI</th>
<th>(ACGIH)</th>
<th>2 mg/l fluorides/Urine prior to shift</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI</td>
<td>(ACGIH)</td>
<td>3 mg/l fluorides/Urine end of shift</td>
</tr>
</tbody>
</table>

Section 9  Physical and Chemical properties

<table>
<thead>
<tr>
<th>Form</th>
<th>sheets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>black</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.89 g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>insoluble</td>
</tr>
</tbody>
</table>

Section 10  Stability and Reactivity

Conditions to avoid
Processing temperatures > 200°C (>392°F). Avoid heating for prolonged periods above the upper processing limit. Hazardous decomposition products may be produced.

Incompatibility
Powdered metals, Alkali metals, and Alkaline earth metals.

Hazardous decomposition
Hydrogen fluoride, Carbonyl fluoride, Fluorinated hydrocarbons, and Fluorinated olefins.

Hazardous reactions
Polymerization will not occur. During drying, cleaning and molding, small amounts of hazardous
gases and/or particulate matter may be released that may irritate eyes, nose and throat.

Section 11  Toxicological information

<table>
<thead>
<tr>
<th>Material</th>
<th>Toxicological Information</th>
</tr>
</thead>
</table>
| 1-Propene, 1, 1, 2, 3, 3, 3-hexafluoro-, polymer | Oral ALD: > 5,000 mg/kg, rat  
|                           | Skin irritation: non-irritant, rabbit                        |
| Barium sulfate            | Oral LD50: >5,000 mg/kg, rat                                |
|                           | Skin irritation: non-irritant, human                         |
|                           | Skin sensitization: none, human                             |
|                           | Repeated dose toxicity: Inhalation, animal                  |
|                           | Mutagenicity: none in animals                               |
|                           | Reproductive toxicity: none in animals                      |
|                           | Teratogenicity: none in animals                              |

Section 12  Ecological information

1-Propene, 1,1,2,3,3,3-hexafluoro- polymer

This substance is not expected to produce toxic effects.

48h EC50

Daphnia magna (Water flea) > 232 mg/l

Additional information

No quantitative data exists concerning the ecological effects of this product.

Section 13  Disposal considerations

Waste Disposal

Dispose in accordance with all company and local regulations.

Packaging disposal

Dispose of in accordance with all company and local regulations.
Section 14   Transport information

This product is not regulated for transport by land, sea or air. This includes: US DOT, Canada TDG Surface, IMDG-Code, and ICAO-TI/IATA-DGR.

Section 15   Regulatory information

This product contains no materials known to violate the following regulations:
EINECS
TSCA
TSCA 12 (b)
AICS
DSL
ENCS (JP)
KECI (KR)
PICCS (PH)
INV (CN)
ISHL (JP)
NZIOC
NZ HSNO
CERCLA
SARA 302 EHS
SARA 311/312
SARA 313
HAPS
California proposition 65
PA Right to Know
NJ Right to Know
RoHS
Material: Mosites #1047

Restrictions for use
Do not use Mosites Rubber Company materials in medical applications involving implantation in the human body or in contact with internal body fluids or tissues.

The information provided in the Safety Data Sheet is correct to the best of our knowledge as of the date of publication. This SDS contains selected regulatory information and is not intended to include all regulations. It is the responsibility of the user to comply with all applicable rules, regulations, and laws relating to the use of this product.