# PRODUCT AND CONTACT INFORMATION

<table>
<thead>
<tr>
<th>Product identifier</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>Nafion™ Sulfonic Membranes</td>
</tr>
<tr>
<td>Product Grade/Type</td>
<td>N324, N424, N438, N424PW, N551, N551WX, N551PW</td>
</tr>
<tr>
<td>Company</td>
<td>The Chemours Company FC, LLC</td>
</tr>
<tr>
<td></td>
<td>1007 Market Street</td>
</tr>
<tr>
<td></td>
<td>Wilmington, DE 19899</td>
</tr>
<tr>
<td></td>
<td>United States of America</td>
</tr>
<tr>
<td>Telephone</td>
<td>1-844-773-CHEM (outside the U.S. 1-302-773-1000)</td>
</tr>
<tr>
<td>Emergency telephone number</td>
<td></td>
</tr>
<tr>
<td>Emergency contact</td>
<td>1-866-595-1473 (outside the U.S. 1-302-773-2000)</td>
</tr>
</tbody>
</table>

## HAZARDS IDENTIFICATION

### Potential Health Effects

Read the "Fluoropolymers Safe Handling Guide", Published by the Society of the Plastics Industry.

**Skin**

- May irritate skin.

**Eyes**

- May irritate eyes.

**Inhalation**

- The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco. Repeated episodes of polymer fume fever may result in persistent lung effects.

**Ingestion**

- Ingestion is not a likely route of exposure.

### Physical and chemical properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Solid parts &amp; shapes, membrane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>various, natural colour</td>
</tr>
</tbody>
</table>
Odor: none
Melting point/range: Decomposes before melting.
% Volatile: 0.0 %
Water solubility: insoluble

**Stability and reactivity**
- **Stability**: Stable at normal temperatures and storage conditions.
- **Conditions to avoid**: Do not expose to temperatures above: 150 °C (302 °F)
- **Hazardous decomposition products**: Hydrogen fluoride, Carbonyl fluoride, potentially toxic fluorinated compounds

**INFORMATION ON INGREDIENTS**
This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYTETRAFLUOROETHYLENE REINFORCING FABRIC</td>
<td></td>
<td>15 - 50 %</td>
</tr>
<tr>
<td>Zirconium dioxide</td>
<td>1314-23-4</td>
<td>0 - 5 %</td>
</tr>
</tbody>
</table>

**FIRST AID MEASURES**

**Description of first aid measures**

- **General advice**: When symptoms persist or in all cases of doubt seek medical advice.
- **Inhalation**: No hazards which require special first aid measures. Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
- **Skin contact**: Wash with water and soap as a precaution.
**Eye contact**: Flush eyes with water as a precaution.

**Ingestion**: Not a probable route of exposure. However, in case of accidental ingestion, call a physician.

**Indication of any immediate medical attention and special treatment needed**

**Treatment**: Treat symptomatically.

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**FIREFIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media: Carbon dioxide (CO2), Dry chemical, Foam, Water

**Special hazards arising from the article**

Specific hazards during firefighting: Hazardous combustion products:
- Hydrogen fluoride
- Acid fluorides
- Carbon oxides
- Sulphur oxides

**Advice for firefighters**

Special protective equipment for firefighters: Wear full protective clothing and self-contained breathing apparatus. Wear neoprene gloves during cleaning up work after a fire.

Further information: Protect from hydrogen fluoride fumes which react with water to form hydrofluoric acid.

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**ACCIDENTAL RELEASE MEASURES**

**Environmental precautions**

Environmental precautions: No special environmental precautions required.
EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection: Provide adequate ventilation. During grinding, sanding, or sawing operations use an approved air purifying respirator with dust/mist cartridge or canister. Respirator with combination filter for vapour/particulate (EN 141)

Eye protection: Wear safety glasses with side shields.

Exposure Guidelines

Exposure Limit Values

Zirconium dioxide

Permissible exposure limit: (OSHA_TRA NS)

<table>
<thead>
<tr>
<th>TLV</th>
<th>(US ACGIH)</th>
<th>5 mg/m³</th>
<th>TWA as Zr</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLV</td>
<td>(US ACGIH)</td>
<td>10 mg/m³</td>
<td>STEL as Zr</td>
</tr>
</tbody>
</table>

DISPOSAL CONSIDERATIONS

Waste treatment methods

Product: Preferred options for disposal are recycling and landfill. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations. Incinerate only if incinerator is capable of scrubbing out hydrogen fluoride and other acidic combustion products.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.
**REGULATORY INFORMATION**

**TSCA (US) Status**
On the inventory, or in compliance with the inventory

**California Prop. 65:**
WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer.

**OTHER INFORMATION**

**Restrictions on use**
Do not use Chemours materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from Chemours under a written contract that is consistent with Chemours policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your Chemours representative. You may also request a copy of the Chemours POLICY Regarding Medical Applications and Chemours CAUTION Regarding Medical Applications.

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