



Nafion™ Sulfonic Membranes

Version 3.0

Revision Date 10/14/2015

Ref. 150000002912

This document is for information only, provided voluntarily and not subsequent to regulatory requirement.

PRODUCT AND CONTACT INFORMATION

Product identifier

Product name : Nafion™ Sulfonic Membranes
Product Grade/Type : N324, N424, N438, N424PW, N551, N551WX, N551PW
Company : The Chemours Company FC, LLC
1007 Market Street
Wilmington, DE 19899
United States of America

Telephone : 1-844-773-CHEM (outside the U.S. 1-302-773-1000)

Emergency telephone number

Emergency contact : 1-866-595-1473 (outside the U.S. 1-302-773-2000)

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

Form : Solid parts & shapes, membrane

Color : various, natural colour

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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.

Component	CAS-No.	Concentration
POLYTETRAFLUOROETHYLENE REINFORCING FABRIC		15 - 50 %
Zirconium dioxide	1314-23-4	0 - 5 %

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.



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- 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.

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.

ACCIDENTAL RELEASE MEASURES

Environmental precautions

- Environmental precautions : No special environmental precautions required.



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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)	5 mg/m ³	8 hr. TWA as Zr
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TLV	(US ACGIH)	5 mg/m ³	TWA as Zr
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TLV	(US ACGIH)	10 mg/m ³	STEL as Zr
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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.



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REGULATORY INFORMATION

TSCA (US) Status
California Prop. 65:

On the inventory, or in compliance with the inventory
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.

Further information

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