



## Article Information Sheet

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This Article Information Sheet is provided as a courtesy in response to a customer request. A Safety Data Sheet (SDS) has not been prepared for these product(s) because they are articles. Articles are not subject to the Occupational Safety and Health Administration's Hazard Communication Standard (29 CFR 1910.1200(b)(6)(v)). As defined in this standard: "Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

**Document Group:** 40-8442-2  
**Issue Date:** 12/07/22

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## SECTION 1: Identification

### 1.1. Product identifier

3M™ Liqui-Cel™ EXF-10x28 Industrial Series Membrane Contactor

#### Product Identification Numbers

G440H, G440RH, G449H, G449HT, G449RH, G449RHT, G451H, G451RH, G510H, G510RH, G511H, G511RH, G696H, G700H, G700HT, G700RH, G700RHT, G701H, G701RH, 70-2013-5045-4, 70-2013-5046-2, 70-2013-5047-0, 70-2013-5048-8, 70-2013-5049-6, 70-2013-5050-4, 70-2013-5051-2, 70-2013-5052-0, 70-2013-5079-3, 70-2013-5080-1, 70-2013-5081-9, 70-2013-5083-5, 70-2013-5197-3, 70-2013-5202-1, 70-2013-5203-9, 70-2013-5204-7, 70-2013-5205-4, 70-2013-5206-2, 70-2013-5207-0, UU-0118-7981-2, UU-0118-7982-0, UU-0118-7983-8, UU-0118-7984-6, UU-0118-7985-3, UU-0118-7986-1, UU-0118-7988-7, UU-0118-7991-1, UU-0120-7238-3, UU-0120-7239-1, 7100136314, 7100136315, 7100116283, 7100136316, 7100116271, 7100136427, 7100136531, 7100136533, 7100136658, 7100116285, 7100136661, 7100136554, 7100136557, 7100136535, 7100136417, 7100284941, 7100284942, 7100288201, 7100288196, 7100288197, 7100288198, 7100288199, 7100288200, 7100288203, 7100288206

### 1.2. Recommended use and restrictions on use

#### Recommended use

Membrane Contactor

### 1.3. Supplier's details

**MANUFACTURER:** 3M  
**DIVISION:** Separation and Purification Sciences Div  
**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA  
**Telephone:** 1-888-3M HELPS (1-888-364-3577)

### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

## SECTION 2: Hazard identification

This product is exempt from hazard classification according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
Epoxy Potting Material	Mixture	5 - 25
Fiber Reinforced Plastic (FRP) Housing	Mixture	5 - 25
Polypropylene Membrane and Plastic Molded Parts	Mixture	1 - 10
Stainless Steel Clamp (if applicable)	Mixture	1 - 10
Gasket/O-Ring Material	Trade Secret*	< 1

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation:**

No need for first aid is anticipated.

**Skin Contact:**

No need for first aid is anticipated.

**Eye Contact:**

No need for first aid is anticipated.

**If Swallowed:**

No need for first aid is anticipated.

**SECTION 5: Fire-fighting measures**

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Not applicable.

**6.2. Environmental precautions**

Not applicable.

**6.3. Methods and material for containment and cleaning up**

Not applicable.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

**7.2. Conditions for safe storage including any incompatibilities**

No special storage requirements.

## SECTION 8: Exposure controls/personal protection

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions. No engineering controls or personal protective equipment (PPE) are necessary.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance****Physical state**

Solid

**Color**

Gray

**Odor**

Odorless

**Odor threshold***No Data Available***pH***Not Applicable***Melting point***No Data Available***Boiling Point***Not Applicable***Flash Point**

No flash point

**Evaporation rate***Not Applicable***Flammability (solid, gas)**

Not Classified

**Flammable Limits(LEL)***Not Applicable***Flammable Limits(UEL)***Not Applicable***Vapor Pressure***Not Applicable***Vapor Density***Not Applicable***Density***No Data Available***Specific Gravity***No Data Available***Solubility In Water***Not Applicable***Solubility- non-water***Not Applicable***Partition coefficient: n-octanol/ water***Not Applicable***Autoignition temperature***Not Applicable***Decomposition temperature***No Data Available***Viscosity***Not Applicable*

## SECTION 10: Stability and reactivity

This material is considered to be non reactive under normal use conditions.

## SECTION 11: Toxicological information

**Inhalation:**

No health effects are expected

**Skin Contact:**

No health effects are expected

**Eye Contact:**

No health effects are expected

**Ingestion:**

No health effects are expected

**Additional Information:**

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a

health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

## SECTION 12: Ecological information

This article is expected to present a low environmental risk either because use and disposal are unlikely to result in a significant release of components to the environment or because those components that may be released are expected to have insignificant environmental impact.

## SECTION 13: Disposal considerations

Dispose of contents/container in accordance with the local/regional/national/international regulations.

## SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

### Chemical Inventories

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory requirements.

## SECTION 16: Other information

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