



## Safety Data Sheet

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

- Product Name** ● **E-CTFE Film-Halar**
- Synonyms** ● E-CTFE Fluoropolymer
- Product Code** ● 5.0.0.10

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

- Relevant identified use(s)** ● Electrical tapes, cable insulation, printed circuits, capacitors, chlorine cells, flat cable constructions, and solar collectors.

#### 1.3 Details of the supplier of the safety data sheet

- Manufacturer** ● Saint-Gobain Performance Plastics Corporation  
150 Dey Road  
Wayne, NJ 07470  
United States
- WANJ.SDS@saint-gobain.com
- Telephone (General)** ● 973-696-4700

#### 1.4 Emergency telephone number

- Manufacturer** ● 800-255-3924 - ChemTel
- Manufacturer** ● +01-813-248-0585 - Worldwide

### Section 2: Hazards Identification

#### EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]  
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

#### 2.1 Classification of the substance or mixture

- CLP** ● Not classified
- DSD/DPD** ● Not classified

#### 2.2 Label Elements

- CLP**
- Hazard statements** ● No label element(s) required
- DSD/DPD**
- Risk phrases** ● No label element(s) required

#### 2.3 Other Hazards

- CLP** ● This material is exempt from CLP/REACH obligations as an article as specified in REACH (1907/2006) and related ECHA guidance.
- DSD/DPD** ● This product is not considered dangerous under the European Directive 67/548/EEC

**United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

**2.1 Classification of the substance or mixture**OSHA HCS 2012 

- Not classified

**2.2 Label elements**OSHA HCS 2012  
**Hazard statements**

- No label element(s) required

**2.3 Other hazards**OSHA HCS 2012 

- Under United States Regulations (29 CFR 1910.1200(c) - Hazard Communication Standard), the product(s) listed above are exempt as article(s) under stated normal conditions of use.

**2.4 Other information**

- This material, as an article, does not legally require an SDS.

**Section 3 - Composition/Information on Ingredients****3.1 Substances**

Composition		
Chemical Name	Identifiers	%
Copolymer of ethylene and chlorotrifluoroethylene	CAS:25101-45-5	> 99%

**3.2 Mixtures**

- Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

**Section 4 - First Aid Measures****4.1 Description of first aid measures****Inhalation**

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, move person to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

**Skin**

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Wash skin with soap and water. If signs/symptoms develop, get medical attention.

**Eye**

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If contact with material occurs flush eyes with water. If signs/symptoms develop, get medical attention.

**Ingestion**

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

- Under normal conditions of use, no health effects are expected.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

- No specific actions or treatments recommended related to exposure to this material.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media** • Water fog, carbon dioxide, foam, dry chemical.

**Unsuitable Extinguishing Media** • No data available.

### 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** • Does not burn without external source of fuel. Fluoropolymers can increase the relative toxic properties of the gases evolved during a fire.

**Hazardous Combustion Products** • No data available

### 5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions** • No special precautions expected to be necessary if material is used under ordinary conditions and as recommended.

**Emergency Procedures** • No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

### 6.2 Environmental precautions

- Avoid release to the environment.

### 6.3 Methods and material for containment and cleaning up

**Containment/Clean-up Measures** • Carefully shovel or sweep up spilled material and place in suitable container.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

- Use good safety and industrial hygiene practices. Product is physiologically inert and non-toxic at normal temperatures. At high temperatures decomposition can be expected with evolution of gaseous and particulate products, which are toxic if inhaled. This can give rise to a characteristic syndrome with influenza type symptoms known as "polymer fume fever". These symptoms subside within 24-48 hours away from further exposure with no long-term effects. Keep away from ignition sources- do not smoke while using Fluoropolymers.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

- Store in a cool, dry place. Do not store near food areas, and avoid contamination of tobacco products.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Exposure Limits/Guidelines

- This is a solid product in which all components are encapsulated presenting no volatile, dust, or exposure hazards.

### 8.2 Exposure controls

#### Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Personal Protective Equipment

##### Respiratory

- No respiratory protection is required under normal conditions and use.

##### Eye/Face

- No eye protection is ordinarily required under normal conditions of use.

##### Skin/Body

- No skin protection is ordinarily required under normal conditions of use.

#### Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Translucent film.
Color	Translucent	Odor	Data lacking
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point	230 to 240 C(446 to 464 F)
Decomposition Temperature	Thermal degradation can begin at 230°C	pH	Not relevant
Specific Gravity/Relative Density	1.68 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

### 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

## 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

- Stable under normal temperatures and pressures.

## 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

## 10.4 Conditions to avoid

- Excess heat.

## 10.5 Incompatible materials

- Reacts with alkali metals and interhalogen compounds. Will burn in atmosphere of 60% oxygen when an ignition source is present.

## 10.6 Hazardous decomposition products

- Thermal decomposition will evolve hydrofluoric acid, hydrochloric acid, and a variety of aliohatic fluorocarbon gases with different chemical structure.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

GHS Properties	Classification
Acute toxicity	EU/CLP • Not relevant OSHA HCS 2012 • Not relevant
Aspiration Hazard	EU/CLP • Not relevant OSHA HCS 2012 • Not relevant
Carcinogenicity	EU/CLP • Not relevant OSHA HCS 2012 • Not relevant
Germ Cell Mutagenicity	EU/CLP • Not relevant OSHA HCS 2012 • Not relevant
Skin corrosion/Irritation	EU/CLP • Not relevant OSHA HCS 2012 • Not relevant
Skin sensitization	EU/CLP • Not relevant OSHA HCS 2012 • Not relevant
STOT-RE	EU/CLP • Not relevant OSHA HCS 2012 • Not relevant
STOT-SE	EU/CLP • Not relevant OSHA HCS 2012 • Not relevant
Toxicity for Reproduction	EU/CLP • Not relevant OSHA HCS 2012 • Not relevant
Respiratory sensitization	EU/CLP • Not relevant OSHA HCS 2012 • Not relevant
Serious eye damage/Irritation	EU/CLP • Not relevant OSHA HCS 2012 • Not relevant

## Potential Health Effects

### Inhalation

- Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)**
  - Under normal conditions of use, no health effects are expected.

### Skin

- Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)**
  - Under normal conditions of use, no health effects are expected.

### Eye

- Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)**
  - Under normal conditions of use, no health effects are expected.

### Ingestion

- Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)**
  - Under normal conditions of use, no health effects are expected.

## Section 12 - Ecological Information

### 12.1 Toxicity

- Material data lacking.

### 12.2 Persistence and degradability

- Material data lacking.

### 12.3 Bioaccumulative potential

- Material data lacking.

### 12.4 Mobility in Soil

- Material data lacking.

### 12.5 Results of PBT and vPvB assessment

- PBT and vPvB assessments have not been carried out.

### 12.6 Other adverse effects

- No studies have been found.

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

- Product waste**
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Packaging waste**
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA

TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

**14.6 Special precautions for user** • None specified.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • Data lacking.

## Section 15 - Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications** • None

State Right To Know				
Component	CAS	MA	NJ	PA
Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	No	No	No

Inventory						
Component	CAS	Australia AICS	Canada DSL	Canada NDSL	China	EU EINECS
Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Yes	Yes	No	Yes	No

Inventory (Con't.)						
Component	CAS	EU ELNICS	Japan ENCS	Korea KECL	New Zealand	Philippines PICCS
Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	No	Yes	Yes	Yes	Yes

Inventory (Con't.)			
Component	CAS	Switzerland SWISS	TSCA
Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	No	Yes

## Australia

### Labor

#### Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

• Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

#### Australia - High Volume Industrial Chemicals List

• Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

#### Australia - List of Designated Hazardous Substances - Classification

• Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

#### Australia - Work Health and Safety Regulations - Threshold Quantity at Major Hazard Facilities (Table 15.1)

• Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**Australia - Work Health and Safety Regulations - Threshold Quantity at Major Hazard Facilities (Table 15.2)**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**Australia - Western Australia - Hazardous Substances Prohibited for Specified Uses**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**Australia - Western Australia - Hazardous Substances Requiring Health Surveillance**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**Environment****Australia - National Pollutant Inventory (NPI) Substance List**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**Australia - Ozone Protection Act - Scheduled Substances**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**Australia - Priority Existing Chemical Program**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**Belgium****Labor****Belgium - Substances and Preparations - Carcinogens and Mutagens**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**Belgium - Substances and Preparations - Suspected Carcinogens and Mutagens**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**Canada****Labor****Canada - WHMIS - Classifications of Substances**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**Canada - WHMIS - Ingredient Disclosure List**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**Environment****Canada - CEPA - Priority Substances List**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**Canada British Columbia****Environment****Canada - British Columbia - Ozone Depleting Substances**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**Canada Manitoba****Environment****Canada - Manitoba - Ozone Depleting Substances and Other Halocarbons - Class 1**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**Canada - Manitoba - Ozone Depleting Substances and Other Halocarbons - Class 2**

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|



## Canada Nova Scotia

### Environment

#### Canada - Nova Scotia - Ozone Layer Protection Regulations

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

## Canada Ontario

### Environment

#### Canada - Ontario - Airborne Contaminant Reporting - Table 2A

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

#### Canada - Ontario - Airborne Contaminant Reporting - Table 2B

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

#### Canada - Ontario - Ozone Depleting Substances and Other Halocarbons - Class 1 Substances

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

#### Canada - Ontario - Ozone Depleting Substances and Other Halocarbons - Class 2 Substances

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

#### Canada - Ontario - Ozone Depleting Substances and Other Halocarbons - Halocarbons

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

## Canada Yukon

### Environment

#### Canada - Yukon - Ozone Depleting Substances and Other Halocarbons

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

## China

### Other

#### China - Annex I & II - Controlled Chemicals Lists

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

## Denmark

### Environment

#### Denmark - Advisory List for Self-Classification of Dangerous Substances

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

#### Denmark - List of Undesirable Substances - Product Groups/Function

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

#### Denmark - List of Undesirable Substances - Reason for Selection

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

## Europe

### Other

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

- |   |            |            |
|---|------------|------------|
| • Copolymer of ethylene and chlorotrifluoroethylene | 25101-45-5 | Not Listed |
|---|------------|------------|

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**EU - Hazardous Substances Restricted or Prohibited in Electrical Equipment (2011/65/EU) (RoHS)**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**EU - Inventory of Cosmetic Ingredients Directive (INCI) (76/768/EEC) - Other Ingredients**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**EU - Inventory of Cosmetic Ingredients Directive (INCI) (76/768/EEC) - Perfume and Aromatic Materials**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Germany****Labor****Germany - Immission Control - Qualifying Quantities for Major Accident Prevention**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Germany - Immission Control - Qualifying Quantities for Safety Reporting**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Germany - TRGS 505 - Specific Lead Regulations**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Germany - TRGS 511 - Specific Ammonium Nitrate Regulations**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Environment****Germany - TA Luft - Types and Classes**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Germany - TA Luft - Emission Limits for Carcinogenic Substances**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Germany - TA Luft - Emission Limits for Fibers**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Germany - TA Luft - Emission Limits for Inorganic Dusts**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Germany - TA Luft - Emission Limits for Inorganic Gases**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Germany - TA Luft - Emission Limits for Organic Substances**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Germany - Water Classification (VwVwS) - Annex 1**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Germany - Water Classification (VwVwS) - Annex 3**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Greece****Labor****Greece - Substances Prohibited from Use in the Workplace**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Hong Kong****Labor****Hong Kong - Dangerous Substances Regulations - Classification**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**India****Environment****India - Hazardous Chemical Rules - List of Hazardous and Toxic Chemicals**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Indonesia****Environment****Indonesia - Hazardous Waste from Non-Specific Sources**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Indonesia - Hazardous Waste from Specific Sources**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Indonesia - Odour Level Standards**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Indonesia - Hazardous Waste from Overdue Chemicals**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Japan****Labor****Japan - ISHL Dangerous Substances**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Japan - ISHL Designated Carcinogens**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Japan - ISHL Harmful Substances Prohibited for Manufacture**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Japan - ISHL Harmful Substances Requiring Workers to Subject to Medical Exams**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Japan - ISHL Harmful Substances Subject to Obtaining Permission for Manufacturing**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Japan - ISHL Harmful Substances Whose Names Are to be Indicated on the Label**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Japan - ISHL Prevention of Lead Poisoning**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Japan - ISHL Mutagens - Existing Chemicals**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Japan - ISHL Mutagens - New Chemicals**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Japan - ISHL Notifiable Substances**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Japan - ISHL Prevention of Organic Solvent Poisoning**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Environment****Japan - Air Pollution Control Law - Emission Standards for Air Pollutants**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Japan - Pollutant Release Transfer Register (PRTR) - Class 1 Substances**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Japan - Pollutant Release Transfer Register (PRTR) - Class 2 Substances**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Malaysia****Labor****Malaysia - Control of Industrial Major Accident Hazards - Threshold Quantities**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Malaysia - Occupational Safety & Health - Risk Phrases**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Malaysia - Occupational Safety & Health - Safety Phrases**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Malaysia - Occupational Safety & Health Conc. Cut-Offs for Corrosive Category**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Malaysia - Occupational Safety & Health Conc. Cut-Offs for Harmful Category**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Malaysia - Occupational Safety & Health Conc. Cut-Offs for Irritant Category**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Malaysia - Occupational Safety & Health Conc. Cut-Offs for Toxic Category**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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**Malaysia - Occupational Safety & Health Conc. Cut-Offs for Very Toxic Category**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
<b>Malaysia - Occupational Safety and Health - Prohibition of Use of Substances</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed

**Environment**

<b>Malaysia - Chlorofluorocarbons (CFCs) Prohibition Order</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
<b>Malaysia - Clean Air Regulations - Noxious and Offensive Substances</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
<b>Malaysia - Scheduled Wastes</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
<b>Malaysia - Scheduled Wastes of Potential Incompatibility</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
<b>Malaysia - Environmental Quality (Industrial Effluent) Regulations - Fifth and Eighth Schedules</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
<b>Malaysia - Environmental Quality (Industrial Effluent) Regulations - Ninth Schedule</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed

**Other**

<b>Malaysia - Pesticides Act - List of Active Ingredients</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
<b>Malaysia - Psychotropic Substances - Psychotropics Requiring Export Authorization</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
<b>Malaysia - Substances Requiring Medical Surveillance</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed

**Netherlands****Other**

<b>Netherlands - List of Carcinogens</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
<b>Netherlands - Major Accidents - Qualifying Quantities for Accident Prevention</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
<b>Netherlands - Major Accidents - Qualifying Quantities for Safety Reporting</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed

**Portugal****Other**

<b>Portugal - Prohibited Substances</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed

**Russia****Labor**

<b>Russia - Limiting Quantities of Hazardous Substances</b>		
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• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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## Singapore

### Labor

#### Singapore - Workplace Safety and Health (Medical Examinations) Regulations 2011

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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### Environment

#### Singapore - Air Impurities Emission Limits

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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#### Singapore - Dioxins/Furans Toxic Equivalency Factors (TEF)

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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#### Singapore - Hazardous Substance Transport Quantities

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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#### Singapore - List of Hazardous Substances

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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### Other

#### Singapore - Chemical Weapons - Schedule of Chemical Weapons

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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#### Singapore - Corrosive and Explosive Substances - Corrosive Substances

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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## South Africa

### Labor

#### South Africa - General Machinery Regulations - Notifiable Substances

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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## United Kingdom

### Environment

#### United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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### Other

#### United Kingdom - Major Accidents - International Toxic Equivalent Factors (ITEF)

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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#### United Kingdom - Major Accidents - Qualifying Quantities for Accident Prevention

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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#### United Kingdom - Major Accidents - Qualifying Quantities for Safety Reporting

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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#### United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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#### United Kingdom - List of Dangerous Substances in Water

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
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## United States

### Labor

**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

### Environment

**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - CWA (Clean Water Act) - Hazardous Substances**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - CWA (Clean Water Act) - Priority Pollutants**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - CWA (Clean Water Act) - Reportable Quantities of Designated Hazardous Substances**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - CWA (Clean Water Act) - Toxic Pollutants**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

## United States - California

### Environment

**U.S. - California - Proposition 65 - Carcinogens List**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**  
 • Copolymer of ethylene and chlorotrifluoroethylene 25101-45-5 Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed

## United States - Pennsylvania

### Labor

<b>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed
<b>U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances</b>		
• Copolymer of ethylene and chlorotrifluoroethylene	25101-45-5	Not Listed

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

## Section 16 - Other Information

<b>Last Revision Date</b>	• 01/October/2014
<b>Preparation Date</b>	• 01/October/2014
<b>Disclaimer/Statement of Liability</b>	• The information and recommendations set forth herein are taken from sources believed to be accurate as to the data hereof; however, Saint-Gobain Performance Plastics makes no warranty with respect to the accuracy of the information or the suitability of the recommendations and assures no liability to any user thereof.
<b>Key to abbreviations</b>	
NDA = No Data Available	