

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Viton™ VTR-7242 fluoroelastomer  
SDS-Identcode : 130000030861

#### Manufacturer or supplier's details

Company : The Chemours Chemical (Shanghai) Co., Ltd.  
Address : 9F, SCG Parkside, 868 Yinghua Road, Pudong New District  
201204, Shanghai, China  
Telephone : 86 400 8056 528  
Emergency telephone number : 86 532 8388 9090  
E-mail address : SDS.ChinaPSR@chemours.com  
Telefax : 86 21 2612 0862

#### Recommended use of the chemical and restrictions on use

Recommended use : Rubber products  
Resin for moulding and/or extrusion  
Restrictions on use : For industrial use only.  
Do not use or resell Chemours™ materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless agreed to by Seller in a written agreement covering such use. For further information, please contact your Chemours representative.

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance : sheets  
Colour : white, off-white  
Odour : odourless

Harmful to aquatic life with long lasting effects.

#### GHS Classification

Long-term (chronic) aquatic hazard : Category 3



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

### GHS label elements

Hazard pictograms : None

Signal word : None

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Physical and chemical hazards

Not classified based on available information.

### Health hazards

Not classified based on available information.

### Environmental hazards

Harmful to aquatic life with long lasting effects.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Limestone	1317-65-3	$\geq 1$ -< 10
1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	1025-15-6	$\geq 1$ -< 10
Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)	Not Assigned	$\geq 1$ -< 2.5
4,4'-(Hexafluoroisopropylidene)diphenol	1478-61-1	$\geq 0.1$ -< 0.25
Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides	63393-96-4	$\geq 0.1$ -< 0.25

### Alternative CAS Numbers for some regions

Chemical name	Alternative CAS Number(s)
Reaction mass of 4,4'-[2,2,2-trifluoro-1-	75768-65-9, 1478-61-1

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

(trifluoromethyl)ethylidene)diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)

### 4. FIRST AID MEASURES

- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Wash with water and soap as a precaution.  
Get medical attention if symptoms occur.
- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : None known.
- Protection of first-aiders : No special precautions are necessary for first aid responders.
- Notes to physician : Treat symptomatically and supportively.

### 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : None known.
- Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides  
Fluorine compounds  
Metal oxides  
Nitrogen oxides (NO<sub>x</sub>)



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version	Revision Date:	SDS Number:	Date of last issue:
3.0	2025/05/23	11415944-00003	2024/10/17
			Date of first issue: 2024/07/03

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 7. HANDLING AND STORAGE

#### Handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Take care to prevent spills, waste and minimize release to the environment.



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

Avoidance of contact : None.

### Storage

Conditions for safe storage : Keep in properly labelled containers.  
Store in accordance with the particular national regulations.

Materials to avoid : No special restrictions on storage with other products.

Packaging material : Unsuitable material: None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Limestone	1317-65-3	PC-TWA (Total dust)	8 mg/m <sup>3</sup>	CN OEL
		PC-TWA (Respirable dust)	4 mg/m <sup>3</sup>	CN OEL

**Engineering measures** : Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

### Personal protective equipment

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type : Combined particulates, acidic gas/vapour and organic vapour type

Eye/face protection : Wear the following personal protective equipment:  
Safety glasses

Skin and body protection : Skin should be washed after contact.

Hand protection  
Material : Nitrile rubber  
Glove thickness : 0.38 mm  
Wearing time : 480 min

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub-



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version	Revision Date:	SDS Number:	Date of last issue: 2024/10/17
3.0	2025/05/23	11415944-00003	Date of first issue: 2024/07/03

stance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the product. Change gloves often!

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.  
When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: sheets
Colour	: white, off-white
Odour	: odourless
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

Density : 1.75 - 1.90 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : insoluble

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle characteristics  
Particle size : No data available

### 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : None known.

Conditions to avoid : None known.

Incompatible materials : None.

Hazardous decomposition products : No hazardous decomposition products are known.

### 11. TOXICOLOGICAL INFORMATION

Exposure routes : Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

### Components:

#### **Limestone:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 420  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

#### **1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:**

Acute oral toxicity : LD50 (Rat): 707 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : Acute toxicity estimate: 1,414 mg/kg  
Method: Expert judgement

Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)

:  
Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 425  
Assessment: The substance or mixture has no acute oral toxicity

#### **4,4'-(Hexafluoroisopropylidene)diphenol:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

Acute dermal toxicity : Method: OECD Test Guideline 423  
Assessment: The substance or mixture has no acute oral toxicity  
: LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides:

Acute oral toxicity : LD50 (Rat): > 200 - 2,000 mg/kg  
Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### Limestone:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
Remarks : Based on data from similar materials

#### 1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)

:  
Species : Not tested on animals  
Method : OECD Test Guideline 439  
Result : No skin irritation

#### 4,4'-(Hexafluoroisopropylidene)diphenol:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

### Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides:

Species : Rabbit  
Method : OECD Test Guideline 404

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

Result : Corrosive after 1 to 4 hours of exposure

### Serious eye damage/eye irritation

Not classified based on available information.

### Product:

Result : No eye irritation

### Components:

#### Limestone:

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
Remarks : Based on data from similar materials

#### 1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)

:

Species : In Vitro - Bovine  
Result : No eye irritation  
Method : OECD Test Guideline 437

#### 4,4'-(Hexafluoroisopropylidene)diphenol:

Species : Rabbit  
Result : Irreversible effects on the eye  
Method : OECD Test Guideline 405

#### Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides:

Result : Irreversible effects on the eye  
Remarks : Based on skin corrosivity.

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

### Components:

#### **Limestone:**

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : negative  
Remarks : Based on data from similar materials

#### **1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:**

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)

:  
Test Type : Direct Peptide Reactivity Assay (DPRA)  
Exposure routes : Skin contact  
Species : Not tested on animals  
Method : OECD Test Guideline 442C  
Result : equivocal

Test Type : KeratinoSens assay  
Exposure routes : Skin contact  
Species : Not tested on animals  
Method : OECD Test Guideline 442D  
Result : positive

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative  
Remarks : Based on data from similar materials

Assessment : Does not cause skin sensitisation.

#### **4,4'-(Hexafluoroisopropylidene)diphenol:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

Result : negative

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### Limestone:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative  
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Based on data from similar materials

#### 1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: positive

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Method: OECD Test Guideline 474  
Result: negative



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)

:  
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
  
Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### 4,4'-(Hexafluoroisopropylidene)diphenol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
  
Test Type: In vitro mammalian cell gene mutation test  
Method: OPPTS 870.5300  
Result: equivocal

### Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
  
Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
  
Test Type: in vitro micronucleus test  
Method: OECD Test Guideline 487  
Result: negative

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

### Product:

Reproductive toxicity - Assessment : No toxicity to reproduction



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

### Components:

#### **Limestone:**

- Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials
- Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

#### **1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:**

- Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)

- Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: positive  
Remarks: Based on data from similar materials
- Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials
- Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

# SAFETY DATA SHEET

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Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

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### 4,4'-(Hexafluoroisopropylidene)diphenol:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: positive

Effects on foetal development : Test Type: Reproduction/Developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

### Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: positive

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



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Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
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### Components:

#### **1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:**

Exposure routes : Ingestion  
Target Organs : Liver  
Assessment : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)

:

Exposure routes : Ingestion  
Target Organs : Seminal vesicle, Prostate  
Assessment : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

#### **4,4'-(Hexafluoroisopropylidene)diphenol:**

Exposure routes : Ingestion  
Target Organs : Prostate, Seminal vesicle  
Assessment : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

### **Repeated dose toxicity**

#### Components:

##### **Limestone:**

Species : Rat  
NOAEL : > 300 mg/kg  
Application Route : Ingestion  
Exposure time : 28 Days  
Method : OECD Test Guideline 422  
Remarks : Based on data from similar materials

#### **1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:**

Species : Rat  
NOAEL : 15 mg/kg  
LOAEL : 50 mg/kg  
Application Route : Ingestion  
Exposure time : 28 Days  
Method : OECD Test Guideline 407



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)

:

Species : Rat, male and female  
NOAEL : 10 mg/kg  
LOAEL : 100 mg/kg  
Application Route : Ingestion  
Exposure time : 28 Days  
Method : OECD Test Guideline 407  
Remarks : Based on data from similar materials

### 4,4'-(Hexafluoroisopropylidene)diphenol:

Species : Rat, male and female  
NOAEL : 10 mg/kg  
LOAEL : 30 mg/kg  
Application Route : Ingestion  
Exposure time : 28 Days  
Method : OECD Test Guideline 407

### Aspiration toxicity

Not classified based on available information.

### Further information

#### Product:

Remarks : According to data on similar materials, and from modeling assessment, the product is not considered to require classification as dangerous to health.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.  
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

### Components:

#### Limestone:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

		Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	LL50 ( <i>Daphnia magna</i> (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EL50 ( <i>Desmodesmus subspicatus</i> (green algae)): > 14 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility Based on data from similar materials
		EL10 ( <i>Desmodesmus subspicatus</i> (green algae)): > 14 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility Based on data from similar materials
Toxicity to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials

### 1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:

Toxicity to fish	:	LC50 ( <i>Oryzias latipes</i> (Japanese medaka)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 ( <i>Daphnia magna</i> (Water flea)): 340 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		EC10 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): 84.6 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC10: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 1.2 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.79 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.45 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.0087 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	: 1
M-Factor (Chronic aquatic toxicity)	: 10

### 4,4'-(Hexafluoroisopropylidene)diphenol:

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 4.2 mg/l Exposure time: 48 h Method: OECD Test Guideline 215
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 2.7 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: ErC50 (Desmodesmus subspicatus (green algae)): 3 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  NOEC (Pseudokirchneriella subcapitata (green algae)): 0.052 mg/l Exposure time: 3 d Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	: NOEC (Danio rerio (zebra fish)): 0.125 mg/l Exposure time: 120 d Method: No data available

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.23 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

### Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.15 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.16 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 0.29 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC10 (Desmodesmus subspicatus (green algae)): 0.138 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to microorganisms : EC10: 4.4 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### Persistence and degradability

#### Components:

#### 1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 7 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301A



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)

:

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301B

### 4,4'-(Hexafluoroisopropylidene)diphenol:

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301B

### Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

### Bioaccumulative potential

#### Components:

#### 1,3,5-Triallyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:

Partition coefficient: n-octanol/water : log Pow: 2.2

Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)

:

Partition coefficient: n-octanol/water : log Pow: 2.28

### 4,4'-(Hexafluoroisopropylidene)diphenol:

Bioaccumulation : Species: Zebrafish  
Bioconcentration factor (BCF): 9.8  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 2.79

### Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides:

Partition coefficient: n-octanol/water : log Pow: < 4  
Remarks: Calculation



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version	Revision Date:	SDS Number:	Date of last issue: 2024/10/17
3.0	2025/05/23	11415944-00003	Date of first issue: 2024/07/03

### Mobility in soil

No data available

### Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

- UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Environmentally hazardous : no

#### IATA-DGR

- UN/ID No. : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Packing instruction (cargo aircraft) : Not applicable  
Packing instruction (passenger aircraft) : Not applicable

#### IMDG-Code

- UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
EmS Code : Not applicable  
Marine pollutant : no



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version 3.0      Revision Date: 2025/05/23      SDS Number: 11415944-00003      Date of last issue: 2024/10/17  
Date of first issue: 2024/07/03

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### GB 6944/12268

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Marine pollutant : no

### Special precautions for user

Not applicable

## 15. REGULATORY INFORMATION

### National regulatory information

#### Law on the Prevention and Control of Occupational Diseases

#### Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : This product is not listed in the catalogue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of determination.

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218) : Not listed

Hazardous Chemicals for Priority Management under SAWS : Not listed

Catalogue of Specially Controlled Hazardous Chemicals : Not listed

List of Explosive Precursors : Listed

### Regulations on Labour Protection in Workplaces where Toxic Substances are Used

Catalogue of Highly Toxic Chemicals : Not listed

### Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

China Severely Restricted Toxic Chemicals for Import and Export : Not listed

### Regulation on the Administration of Precursor Chemicals



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version	Revision Date:	SDS Number:	Date of last issue: 2024/10/17
3.0	2025/05/23	11415944-00003	Date of first issue: 2024/07/03

Catalogue and Classification of Precursor Chemicals : Not listed

### Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

### Regulations of Ozone Depleting Substances Management

List of Controlled Ozone Depleting Substances Import and Export : Not listed

List of Controlled Ozone Depleting Substances : Not listed

### Environmental Protection Law

List of Priority Controlled Chemicals : Not listed

List of Key Controlled New Pollutants : Not listed

## 16. OTHER INFORMATION

Revision Date : 2025/05/23

Other information : Viton™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC. Chemours™ and the Chemours Logo are trademarks of The Chemours Company. Before use read Chemours safety information. For further information contact the local Chemours office or nominated distributors.

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : yyyy/mm/dd

### Full text of other abbreviations

CN OEL : Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

CN OEL / PC-TWA : Permissible concentration - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Viton™ VTR-7242 fluoroelastomer

Version	Revision Date:	SDS Number:	Date of last issue:
3.0	2025/05/23	11415944-00003	2024/10/17
			Date of first issue: 2024/07/03

x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

CN / EN

